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United States
Department of
Agriculture

Soil
Conservation
Service

Salt Lake City
Utah



WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department
of Natural Resources



April 1, 1984

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

FOR UTAH

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

PETER C. MYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

[illegible]

FRANCIS T. HOLT
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

UTAH STATE DEPARTMENT OF NATURAL RESOURCES

DEE C. HANSEN	DANIEL F. LAWRENCE
State Engineer	Director
Division of Water Rights	Division of Water Resources

[illegible]

BOB L. WHALEY, Supervisor

**Soil Conservation Service
125 So. State, Fed. Bldg.
P.O. Box 11350
Salt Lake City, Utah 84147**

PROSPECTIVE WATER SUPPLIES

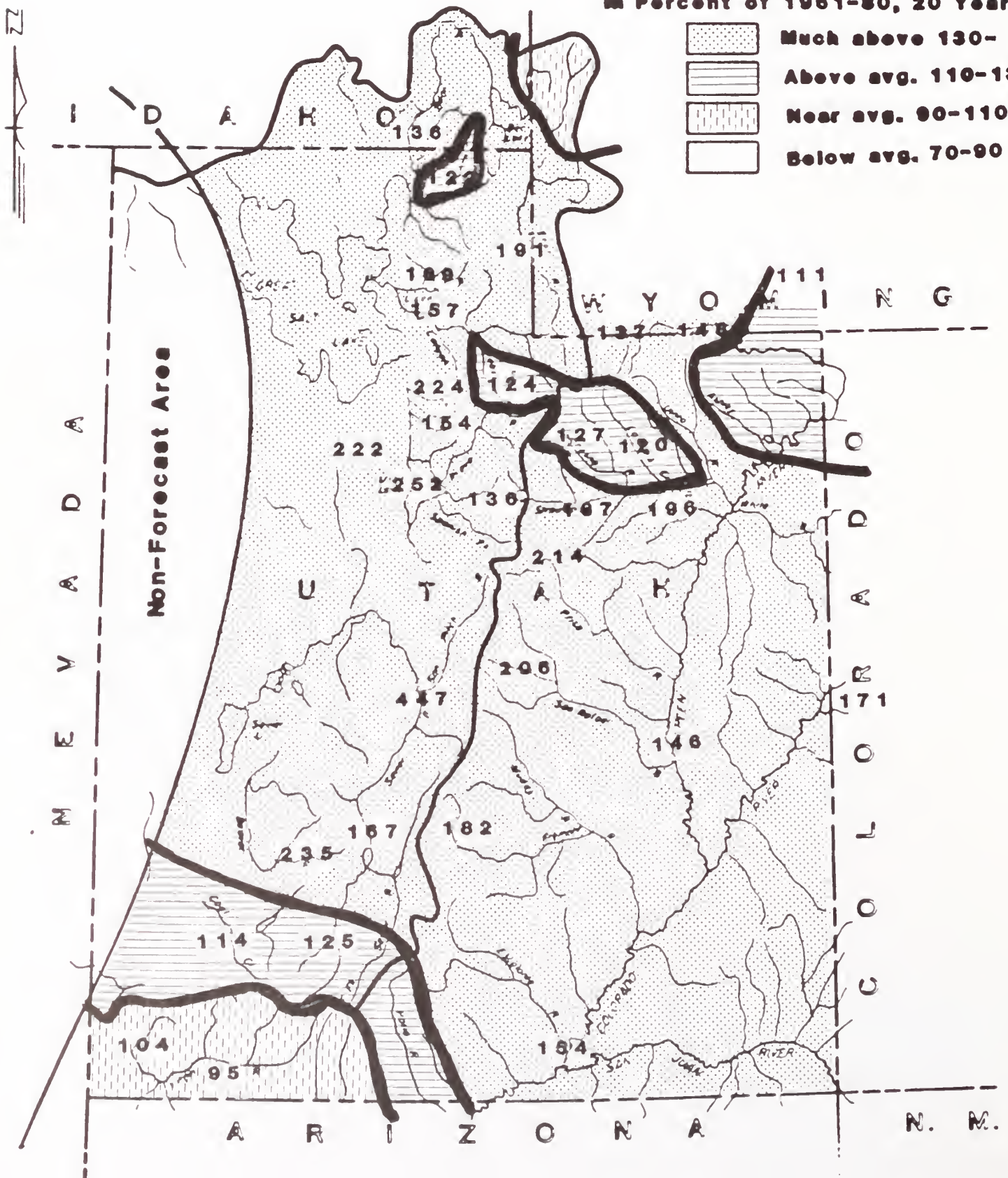
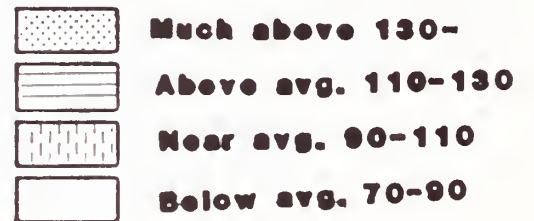
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

April 1, 1984

Approximate Date



FORECAST STREAM FLOW
In Percent of 1961-80, 20 Year Avg.



As of April 1, 1984

* * * * *
* Utah's 1984 Water Supply Outlook ranges from near *
* average to well above average. Snow water content *
* varies from about one-fourth of average in the south- *
* western corner to nearly two times average in the *
* central portion of the state. Watershed soils, with *
* the exception of the southwestern corner, are generally *
* wetter than last year. Reservoir storage is above *
* average. Streamflow forecasts range from slightly *
* below average on the Virgin River to more than seven *
* times average on the Sevier River. *
* * * * *

SNOW COVER

Snow measurements, except for the southwestern corner of the state, show a near average increase during March and now range from 26% of average for Enterprise-New Harmony drainages to 186% on the Tooele Valley and Vernon Creek watersheds. Several new records for April 1 snowpack were set this year: Ben Lomond Peak on the Ogden; Buck Flat and Red Pine Ridge on the San Rafael; and Farnsworth Lake, Gooseberry R.S., and Pickle Keg Springs on the Lower Sevier. Basin snow water equivalent as a percent of average for the first of April is as follows: Bear 127%, Logan 119%, Ogden 153%, Weber 135%, Provo-Utah Lake 129%, Duchesne 113%, Price 136%, San Rafael 168%, Fremont 183%, Upper Sevier 95%, Lower Sevier 172%, Beaver 146%, Coal Creek 65%, and Virgin River 50%.

PRECIPITATION

Precipitation during March at mountain stations ranged from 15% at Little Grassy Creek above Enterprise to 226% at Fish Lake above Loa.

SOIL MOISTURE

Watershed soils are generally wetter than normal and wetter than last year with the exception of the southwest corner.

RESERVOIR STORAGE

Reservoir storage in 28 of Utah's key irrigation reservoirs is 126% of average and 88% of usable capacity. Many reservoirs have released water in anticipation of heavy runoff this spring and all are expected to fill with the possible exception of Enterprise Reservoir.

(More)

STREAMFLOW FORECASTS

Streamflow forecasts have generally stayed at about the same levels as forecast last month in the northern part of the state. Central Utah forecasts have generally increased and Southern Utah forecasts have decreased.

Forecasts by basin are as follows: Bear, 96% on Smith's Fork to 199% on Big Creek; Ogden, 151% on South Fork to 169% for Pineview-Inflow; Weber, 124% at Oakley to 216% on East Canyon Creek; Provo-Utah Lake, 136% for Strawberry Reservoir Inflow to 252% for Utah Lake Inflow; Jordan River, 139% for Little Cottonwood Creek to 257% for Emigration Creek; Duchesne, 113% for Rock Creek to 196% at Myton; Price-San Rafael-Muddy, 188% on Huntington Creek to 237% for the Price at Heiner; Sevier, 125% at Hatch to 712% for the Sigurd to Gunnison reach; Beaver, 235% near Beaver to 382% for Minersville Reservoir Inflow; Virgin River 95% and Coal Creek 114%.

The Colorado River is forecast 171% near Cisco and 154% for Lake Powell Inflow. The Green River is forecast 111% for Flaming Gorge Inflow and 146% at Green River.

The potential for high peak flows exists on the Lower Sevier, San Pitch, San Rafael, Price, Beaver, and on and around Utah Lake and the Jordan River and their tributaries.

The Great Salt Lake is expected to peak at between 4,208.0 and 4,209.0 feet and Utah Lake at 5.0 to 6.0 feet above compromise, the highest ever recorded. Property owners should take precautions to protect property near these lakes where possible.

The above forecasts assume normal precipitation and temperature during the snow melt period.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

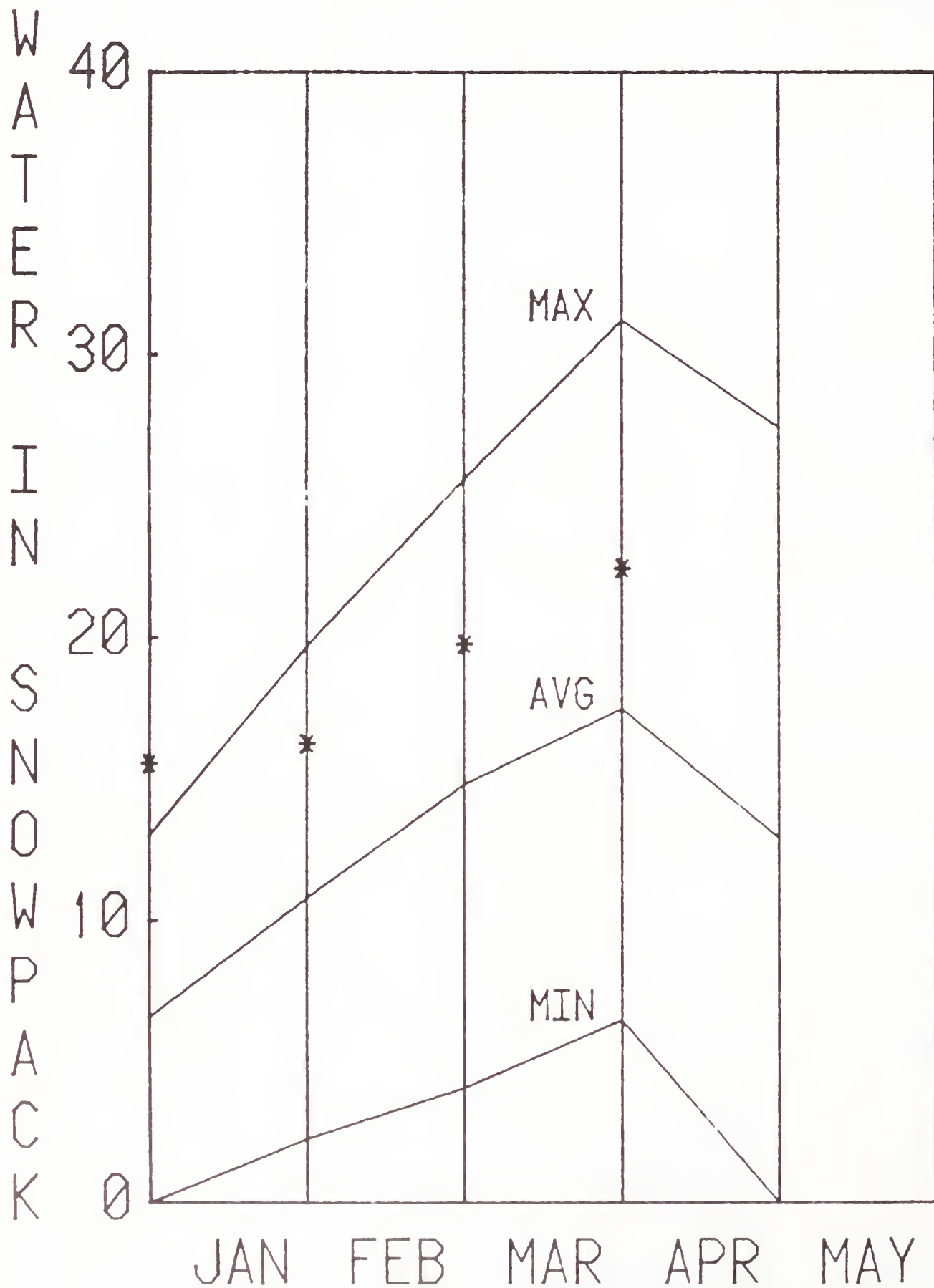
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1056.4	1101.5	991.5
	Woodruff Narrows	55.8	49.3	36.4 ^a	--
	Woodruff Creek	3.5	3.5	3.5 ^a	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	24.0	24.6	14.3
<u>Little Bear</u>	Hyrum	15.3	10.6	10.6 ^a	12.2
	Porcupine	11.3	8.5	4.6 ^a	5.0 ^b
<u>Ogden</u>	Causey	6.9	0.8	1.4	2.6 ^b
	Pineview	110.1	20.4	79.8	55.6
<u>Provo</u>	Deer Creek	149.7	118.1	112.3	97.9
<u>Settlement Creek</u>	Settlement Creek	1.2	0.8	0.9	0.8 ^b
	Vernon Creek	0.6	0.4	0.4	0.5 ^b
<u>Sevier River</u>	Gunnison	18.2	13.8	15.7	16.3 ^b
	Otter Creek	52.5	50.2	50.2	35.8
	Piute	71.8	58.0	58.0	46.2
	Sevier Bridge	236.0	221.2	232.0	136.2
	Panguitch Lake	22.3	20.9	21.0 ^a	--
<u>Spanish Fork</u>	Strawberry	270.0	270.0	256.8	145.9
<u>Utah Lake</u>	Utah Lake	883.9	1236.7	1134.0	722.9
<u>Weber</u>	East Canyon	48.1	16.7	38.9	36.6 ^b
	Echo	73.9	34.1	52.2	49.5
	Lost Creek	20.0	5.5	15.2	13.3 ^b
	Rockport	60.9	27.3	44.5	30.9
	Willard Bay	193.3	111.4	167.0	153.6 ^b
COLORADO R. BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	26.2	30.6	22.6 ^b
	Red Fleet	26.0	18.0	22.4	--
<u>Colorado</u>	Blue Mesa	829.5	245.1	445.8	--
	Lake Powell	25002.0	21057.0	22603.0	--
<u>Green</u>	Flaming Gorge	3749.0	3054.5	3173.8	--
<u>Lakefork</u>	Moon Lake	35.8	29.4	31.9	18.3
<u>Price River</u>	Scofield	65.8	44.4	38.3	33.3
<u>San Juan</u>	Navajo	1696.0	1333.0	1323.7	--
	Ken's Lake	2.3	0.7	0.9	--
<u>San Rafael</u>	Huntington North	3.9	2.8	3.7	3.8 ^b
	Joe's Valley	54.6	37.5	45.1	45.6 ^b
	Mill Site	16.7	13.9	16.7	4.6 ^b
<u>Strawberry</u>	Currant Creek	15.5	5.2	--	--
	Starvation	165.3	102.6	117.0	114.1 ^b
	Soldier Creek	951.4	60.0	35.1	--
<u>Uintah</u>	Bottle Hollow	11.3	11.1	11.1	10.6 ^b

a - Partly estimated

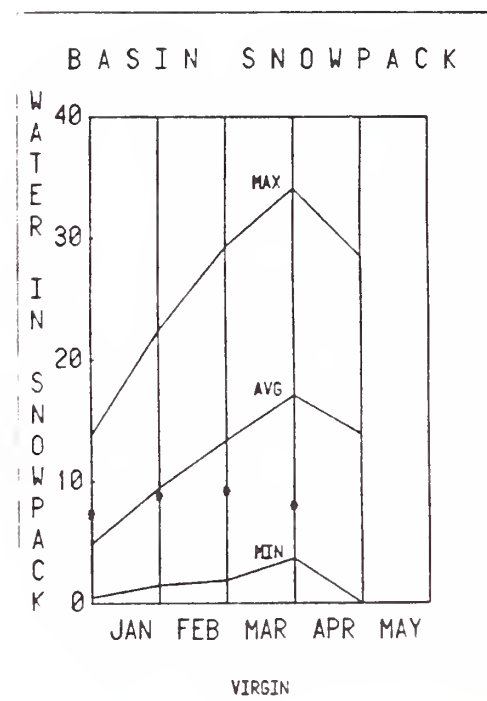
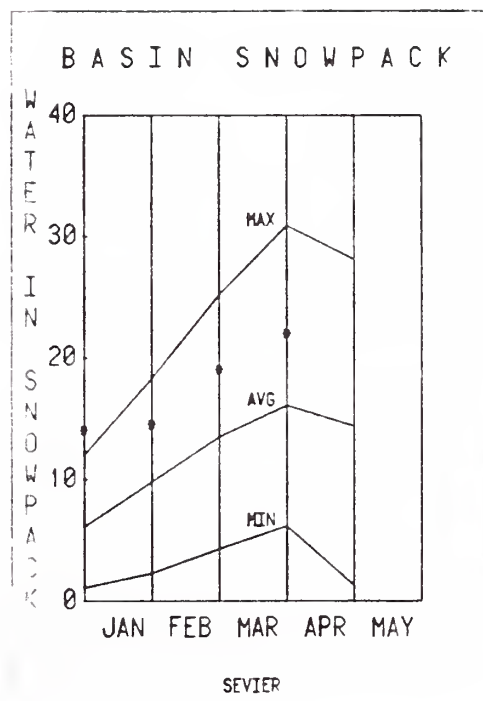
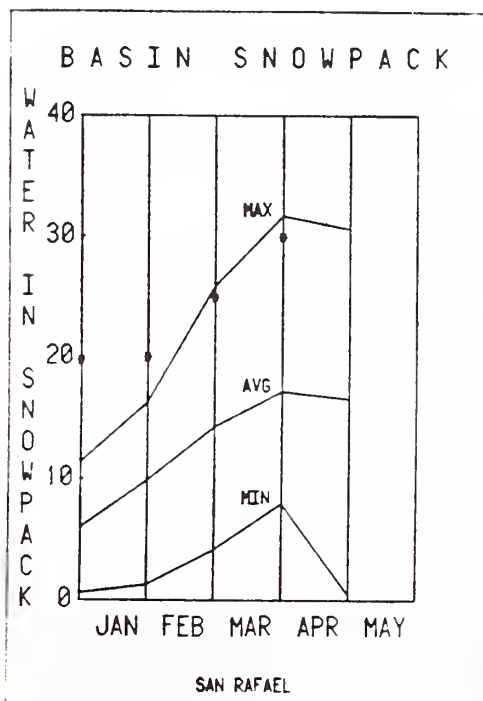
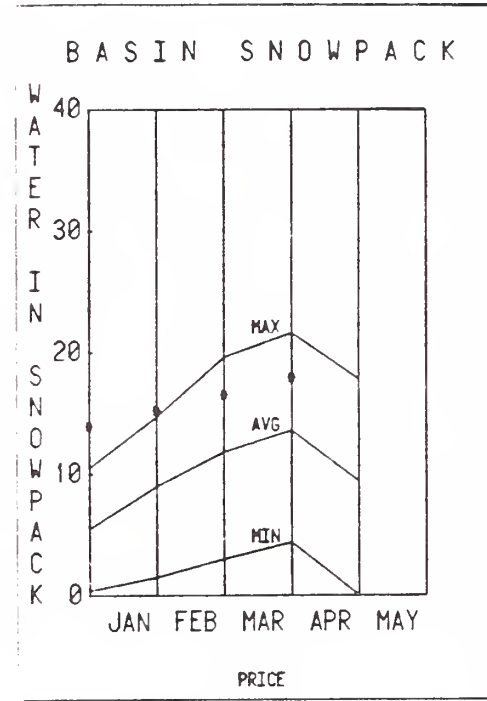
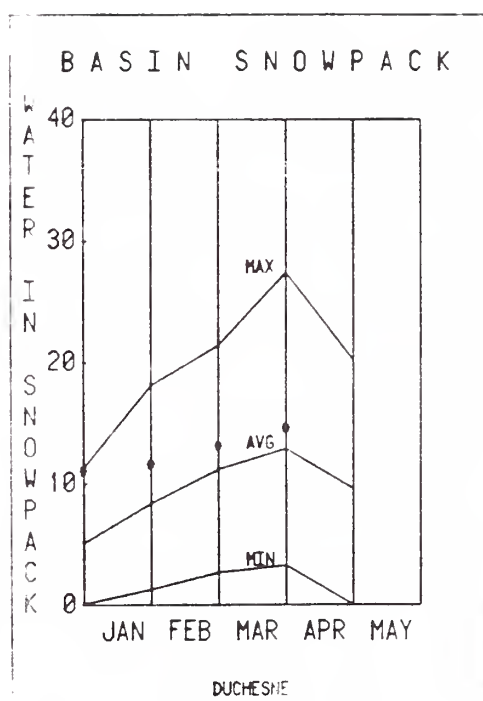
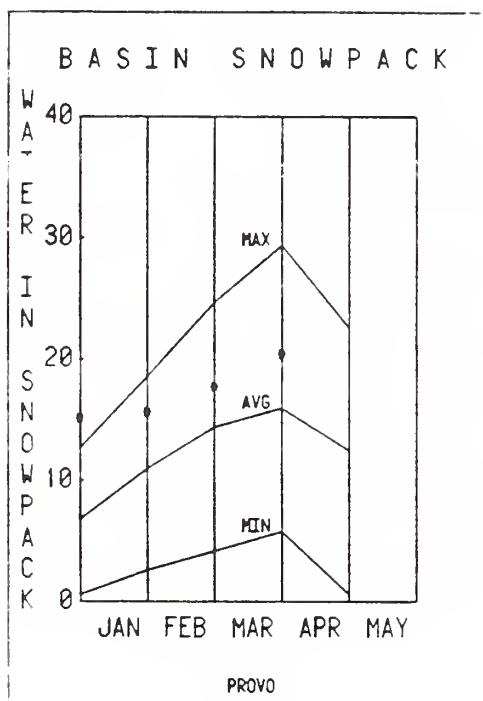
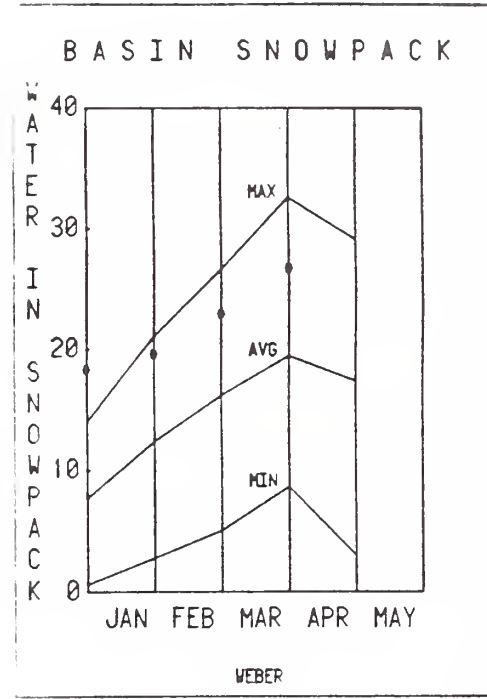
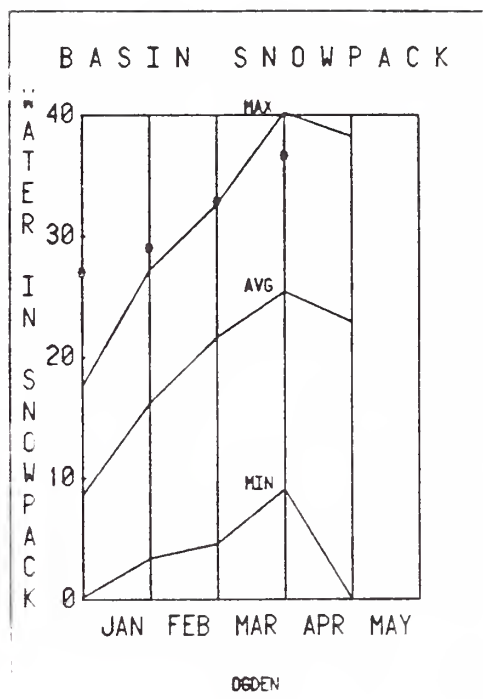
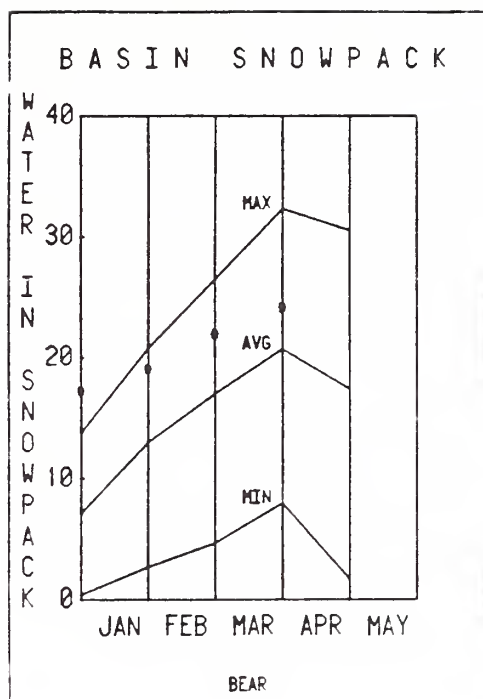
b - Average of past record in average period - less than 20 years

+ - 1961-80 20 year average period

BASIN SNOWPACK



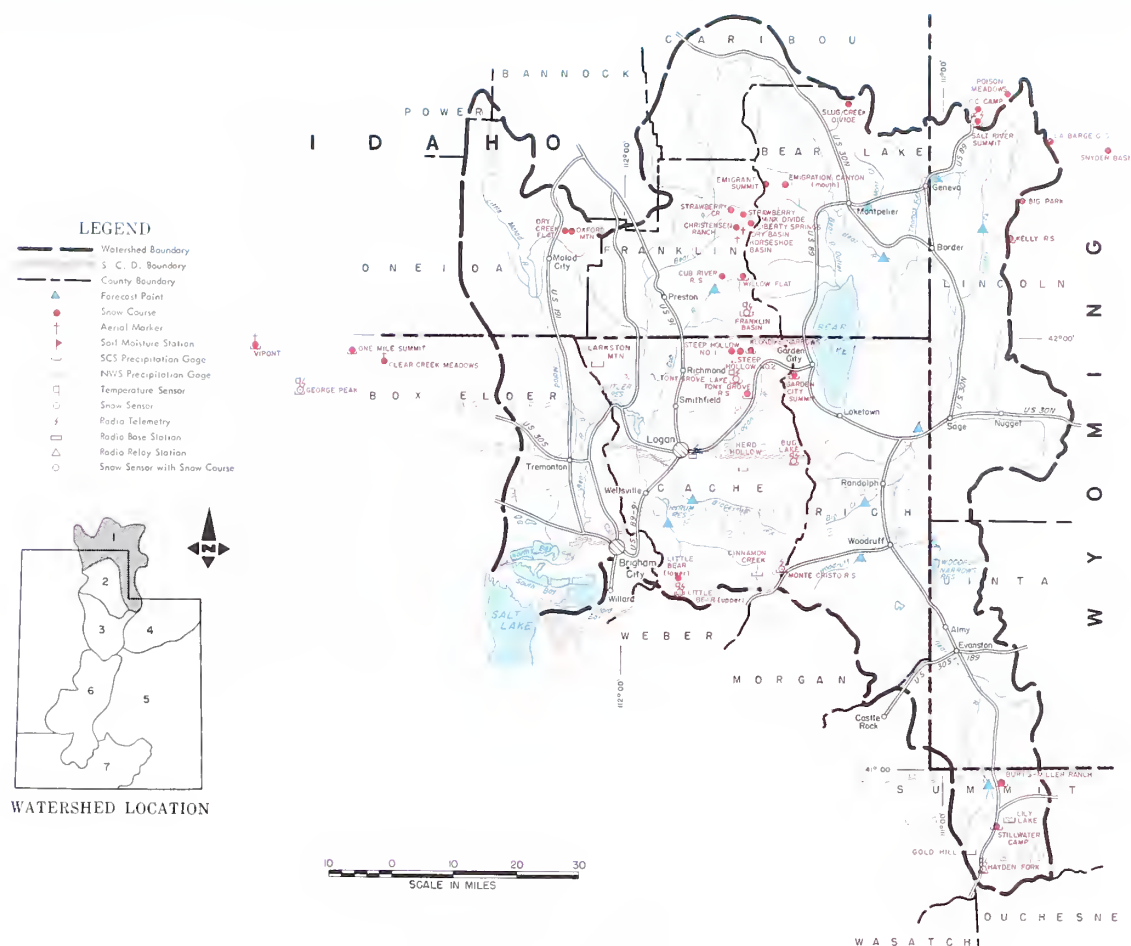
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WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 111% on the Upper Bear to 130% on the Lower Bear. Snowpack on the Logan River is 119% and the Raft River Mountains are at 137% of the April 1 average.

PRECIPITATION at mountain stations ranged from 39% of the March average at Willow Flat to 168% at Tony Grove Lake.

SOIL MOISTURE is well above average.

RESERVOIR STORAGE is above average with the exception of Hyrum Reservoir where storage is less than average but the same as last year in anticipation of heavy runoff. Bear Lake is starting to fill now after being drawn down to allow storage for spring runoff.

STREAMFLOW FORECASTS for most stations decreased slightly from last month. Forecasts range from 96% for Smith's Fork to 199% for Big Creek. The Bear is forecast 149% at the Utah-Wyoming Stateline, 191% at Woodruff, 195% at Randolph, and 140% at Harer. Woodruff Creek is 145%, Thomas Fork 100%, Logan 122%, Blacksmith Fork 155%, Little Bear 149%, and Cub River 136%.

Peak flows are expected to range from near average on Smith's Fork to nearly twice average for Big Creek. Precautions should be taken to prevent property damage near streams with high forecasts. All water users should have adequate water supplies this season.

BEAR RIVER BASIN IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	THOUSAND ACRES	PERCENT OF AVERAGE		THOUSAND ACRES	AVERAGE
BEAR RIVER					
Bear nr UT-Wyo. State Line	164	149	Apr-July	164	110
Bear nr Woodruff 1/	265	191	Apr-July	275	139
Woodruff Crk nr Woodruff, UT	25	145	Apr-July	30	17.3 ^b
Big Creek nr Randolph, UT	10.5	199	Apr-July	--	5.3 ^b
Bear nr Randolph 1/	215	195	Apr-July	294	110
Thomas Fork nr ID-WY State Ln	35	100	Apr-Sept	--	35
Smith's Fork nr Border, WY	114	96	Apr-Sept	--	119
Bear at Harer, Idaho 1/	434	140	Apr-Sept	688	310
Logan nr Logan 1/	141	122	Apr-July	167	116
Blacksmith Fork nr Hyrum	79	155	Apr-July	87	51
Little Bear nr Paradise	57	149	Apr-June	80	38
Cub River nr Preston, ID	64	136	Apr-July	--	47

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN - and/or SUBWATERWAYS	NUMBER OF POINTS AVERAGE	THIS YEAR AS A PERCENT OF	
		LAST YEAR	AVERAGE
BEAR RIVER	35	133	127
UPPER BEAR RIVER	7	126	111
LOWER BEAR RIVER	28	134	130
LOGAN RIVER	7	113	119
UPPER RAFT RIVER	4	98	137

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 20 years
e - Maximum mean daily peak flow
+ - 1961-80 20 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	USABLE CAPACITY	USABLE STORAGE		
			THIS YEAR	LAST YEAR	AVERAGE
BEAR RIVER	Bear Lake	1421.0	1056.4	1101.5	991.5
	Woodruff Narrows	55.8	49.3	36.4 ^a	--
	Woodruff Creek	3.5	3.5	3.5 ^a	--
LITTLE BEAR	Hyrum	15.3	10.6	10.6 ^a	12.2
	Porcupine	11.3	8.5	4.6 ^a	5.0 ^b

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Bear nr. Ut.-Wyo. Stateline	2080-2460	1506
Woodruff Creek nr Woodruff	300-440	253
Big Creek nr Randolph	80-120	48 ^b
Logan River nr Logan	960-1260	980
Little Bear nr Paradise	610-930	519

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	LAST YEAR	AVERAGE
Burts-Miller Ranch	4/3	26	7.1	4.8	6.1
Cub River R.S.	3/29	38	15.2	5.3	7.1
Emigrant Summit	3/30	85	32.8	26.1	25.7
Franklin Basin	3/29	82	31.3	24.6	28.3
Garden City Summit	3/29	57	20.7	15.9	18.7
Hayden Fork	4/3	54	18.3	14.4	16.0 ^b
Klondike Narrows	3/29	62	24.9	18.2	20.9

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	LAST YEAR	AVERAGE
Little Bear Lower	3/28	38	13.6	9.0	10.2
Little Bear Upper	3/28	48	18.2	10.8	13.2
Monte Cristo	3/28	74	29.0	23.4	26.1
Salt River Summit	3/29	51	15.8	14.0	17.0
Stillwater Camp	4/3	43	13.0	10.0	11.1
Tony Grove R.S.	3/29	45	18.0	10.4	12.0

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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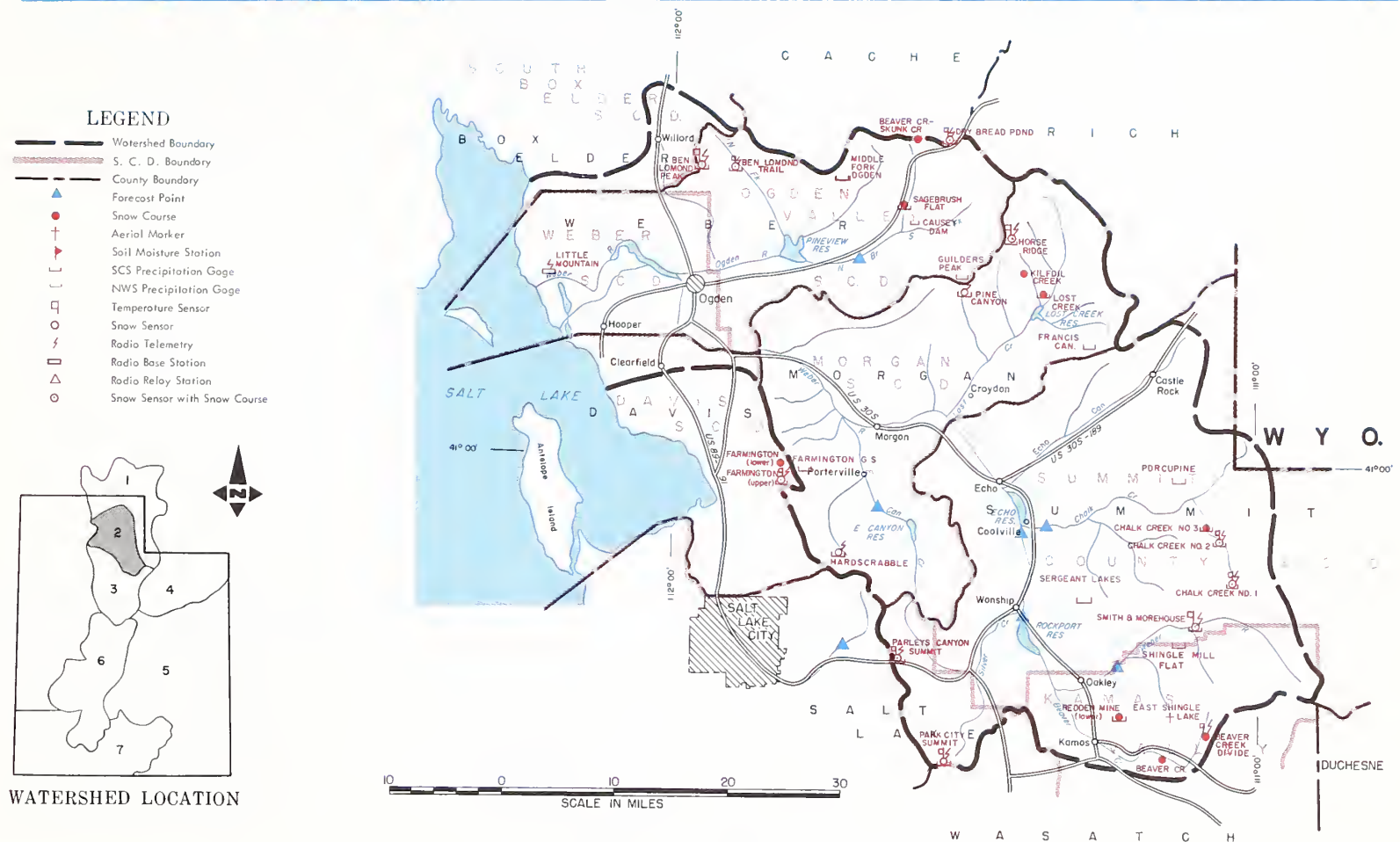
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1984

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 135% of the April 1 average on the Weber River to 153% on the Ogden River. This year's snow cover is 13% more than last April 1st on the Weber River and 38% above last year on the Ogden River.

PRECIPITATION at mountain stations ranged from 51% of the March average at Dry Bread Pond to 139% at Ben Lomond Peak on the Ogden. Weber River precipitation ranged from 58% of average at Lost Creek to 110% at Chalk Creek #1.

SOIL MOISTURE is above average and wetter than last year.

RESERVOIR STORAGE has been drawn to make space for spring runoff and is now 54% of last April 1 and 63% of the 20 year average.

STREAMFLOW FORECASTS changed very little from last month and now range from 124% of the April-June average for the Weber at Oakley to 216% for East Canyon Creek. The South Fork Ogden is now forecast 151% and Pineview Inflow 169%.

Weber River forecasts are as follows: Rockport Inflow 128%, Coalville 129%, Chalk Creek 169%, Echo Inflow 145%, Gateway 157%, Lost Creek 186% and Hardscrabble Creek 155% of the April-June average. Maximum mean daily peak flows are forecast to be about 120% of average for the Weber at Oakley, 145% for South Fork Ogden, and 171% for Chalk Creek at Coalville. Measures should be taken to protect property along streamchannels.

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST %			THOUSAND ACFT FEET	
	Thousand Acft Feet	Percent of Average		Last Year	Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	126	124	Apr-June	144	102
Rockport Reservoir Inflow <u>1/</u>	142	128	Apr-June	164	111
Chalk Creek at Coalville	61	169	Apr-June	67	36
Weber nr Coalville <u>1/</u>	154	129	Apr-June	187	119
Lost Creek nr Croydon, UT <u>1/</u>	29	186	Apr-June	37	15.6 ^a
East Canyon Creek nr Morgan <u>1/</u>	54	216	Apr-June	53	25
Hardscrabble Crk nr Porterville <u>1/</u>	29	155	Apr-June	--	18.4 ^a
S. Fork Ogden nr Huntsville <u>1/</u>	86	151	Apr-June	96	57 ^a
Pineview Reservoir Inflow <u>1/</u>	195	169	Apr-June	207	115 ^a
Echo Reservoir Inflow <u>2/</u>	210	145	Apr-June	227	145
Weber at Gateway <u>1/</u>	471	157	Apr-June	574	300
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	13.8	168	Apr-July	--	8.2 ^b

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUBWATERSHED	Number of Gauges Average	THIS YEAR AS A PERCENT OF	
		Last Year	
		Last Year	Average
OGDEN RIVER	6	138	153
WEBER RIVER	13	113	135

1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U. S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 a - Partly estimated
 b - Average of all past record - less than 20 years
 e - Maximum mean daily peak flow
 + - 1961-80 20 year Average Period
 * - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acft Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USABLE STORAGE		
			This Year	Last Year	Average
OGDEN	Causey	6.9	0.8	1.4	2.6 ^h
	Pineview	110.1	20.4	79.8	55.6
WEBER	East Canyon	48.1	16.7	38.9	36.6 ^b
	Echo	73.9	34.1	52.2	49.5
	Lost Creek	20.0	5.5	15.2	13.3 ^b
	Rockport	60.9	27.3	44.5	30.9
	Willard Bay	193.3	111.4	167.0	153.6 ^b

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
South Fork Ogden nr Huntsville	930-1300	763
Chalk Creek nr Coalville	700-1040	510
Weber nr Oakley	1620-2080	1540

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Beaver Creek R.S.	3/31	32	12.2	9.8	7.6
Beaver Creek-Skunk Creek	3/28	42	16.6	11.7	12.4
Ben Lomond Peak	3/28	154	63.1 ^d	45.0	38.3
Ben Lomond Trail	3/28	70	30.4	23.6	17.5
Chalk Creek #1	3/31	72	27.4	24.1	22.6
Chalk Creek #2	3/31	52	18.2	15.5	15.5
Chalk Creek #3	3/31	30	10.1	7.8	7.6
Dry Bread Pond	3/28	62	24.2	18.7	19.5

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Horse Ridge	3/28	69	27.5	20.8	22.3 ^b
Lost Creek Reservoir	3/28	16	6.5	0.0	2.4 ^a
Monte Cristo	3/28	74	29.0	23.4	26.1
Parleys Canyon Summit	3/28	73	26.5	21.4	18.8
Sagebrush Flat	3/28	10	3.2	1.0	2.0
Smith & Morehouse	3/31	48	17.6	13.8	13.3
Trial Lake	3/31	69	26.3	26.8	24.5

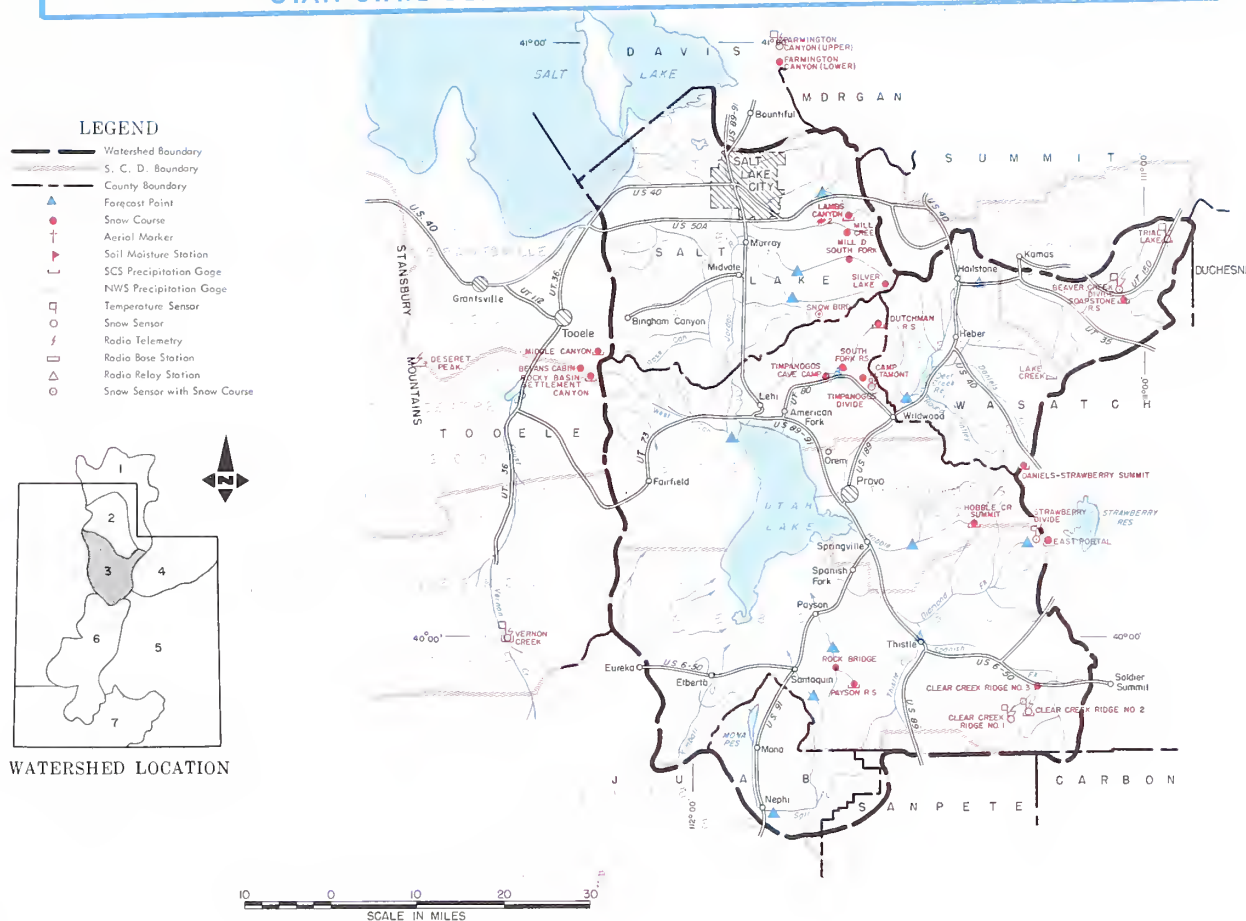
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WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1984

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER now ranges from 129% of the April 1 average for the Provo River and Utah Lake drainage to 186% for Tooele Valley and Vernon Creek. The Jordan River-Salt Lake Front is 128% of average.

PRECIPITATION at mountain stations ranged from 71% of the March average for Vernon Creek to 166% at Payson Ranger Station.

SOIL MOISTURE is above average and wetter than last year.

RESERVOIR STORAGE is above average with Utah Lake at 3.45 feet above compromise and forecast to peak at 5 to 6 feet above compromise. The Great Salt Lake rose another 0.65 foot during March and now stands at 4,207.35 feet above mean sea level, 4.15 feet higher than a year ago and forecast to rise to 4,208 to 4,209 feet above mean sea level.

STREAMFLOW FORECASTS now range from 136% of average for Strawberry Reservoir Inflow to 257% for Emigration Creek. The Provo River is forecast 151% at Hailstone and 167% below Deer Creek Reservoir. American Fork is forecast 161%, Hobbler Creek 237%, Spanish Fork 243%, Payson 202% and Utah Lake Inflow 252%. Salt Lake Front forecasts are as follows: Little Cottonwood 139%, Big Cottonwood 154%, Parley's Creek 224%, Mill Creek 203%, Emigration Creek 257%, and City Creek 179%. Tooele Valley watershed forecasts are 222% for Settlement Creek and 143% for South Willow. Vernon Creek is forecast 242% of the April-June average.

Peak flows are forecast 1 1/2 to 3 times normal. Action should be taken to protect property along stream channels. Water supplies should be more than adequate this year.

UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *	FORECAST *		THOUSAND ACRE FEET	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year †	Average ‡
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	160	151	Apr-July	160	106
Provo below Deer Creek Dam 1/	200	167	Apr-July	--	118
American Fork nr American Fk.	50	161	Apr-July	--	31
Hobble Creek nr Springville	41	237	Apr-July	--	18.7 ^b
Strawberry Reservoir Inflow 1/	72	136	Apr-July	147	53
Spanish Fork at Thistle	97	243	Apr-July	--	40
Payson Creek nr Payson	12.5	202	Apr-July	--	6.2
Utah Lake Inflow	600	252	Apr-July	--	238
JORDON RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	53	139	Apr-July	63	38
Big Cottonwood nr SLC	57	154	Apr-July	61	37
Parley's Creek nr SLC	33	224	Apr-July	42	14.8
Mill Creek nr SLC	12	203	Apr-July	13.6	5.8
Emigration Creek nr SLC	9.5	257	Apr-July	13.9	3.7
City Creek nr SLC	14.0	179	Apr-July	21.6	7.7
TOOELE VALLEY					
Settlement Crk nr Tooele	5.1	222	Apr-July	--	2.3 ^b
S. Willow Crk nr Grantsville	4.3	143	Apr-July	4.3	3.0 ^b
Vernon Creek nr Vernon	2.0	242	Apr-June	4.7	0.8

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average ‡
PROVO RIVER & UTAH LAKE	10	96	129
JORDON RIVER & SALT LAKE	5	106	128
TOOELE VALLEY & VERNON CREEK	5	120	186

1 - Observed flow corrected for change in storage and diversions
3 - Provisional flows - subject to correction
a - Partly estimated
b - Average of past record - less than 20 years
+ - 1961-80 20 year average period
e - Maximum mean daily peak flow
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ‡
SPANISH FORK	Strawberry	270.0	270.0	256.8	145.9
UTAH LAKE	Utah Lake	883.9	1236.7	1134.0	722.9
	Settlement Creek	1.2	0.8	0.9	0.8 ^b
	Vernon Creek	0.6	0.4	0.4	0.5 ^b
PROVO	Deer Creek	149.7	118.1	112.3	97.9

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ‡
Big Cottonwood nr Salt Lake City	550-650	442
Little Cottonwood nr Salt Lake City	600-700	384
Provo Near Hailstone	2200-2500	2128
Spanish Fork nr Thistle	1200-1400	451 ^b
American Fork nr American Fork	500-600	329
Mill Creek nr Salt Lake City	90-110	59
Parley's Creek nr Salt Lake City	325-375	154
City Creek nr Salt Lake City	120-140	75
Emigration	130-150	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE	NAME	THIS YEAR		PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)
				Last Year	Average ‡
Bevans Cabin		4/3	70	23.4	15.3
Clear Creek #1		3/29	65	25.2	24.3
Clear Creek #2		3/29	56	19.5	17.4
Clear Creek #3		3/29	26	10.4	8.7
Daniels-Strawberry Summit		3/30	51	17.7	18.2
Deseret Peak		4/3	116	40.9	39.9
Hobble Creek Summit		3/30	55	21.6	19.7
Lambs Canyon #2		3/28	62	23.5	19.8
Middle Canyon		4/3	78	27.0	18.2
Mill Creek		3/27	74	26.0	24.1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	NAME	THIS YEAR		PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)
				Last Year	Average ‡
Mill D South Fork		3/29	64	24.6	24.6
Parley's Canyon Summit		3/28	73	26.5	21.4
Payson R.S.		3/30	77	29.1	27.9
Rocky Basin-Settlement Canyon		4/3	128	45.4	46.0
Silver Lake Brighton		3/29	76	28.2	31.0
Soapstone R.S.		3/31	45	14.6	11.9
South Fork R.S.		3/31	28	10.4	17.1
Timpanogos Divide		3/31	64	22.8	34.2
Trial Lake		3/31	69	26.3	26.8
Vernon Creek		3/31	62	21.6 ^a	12.2

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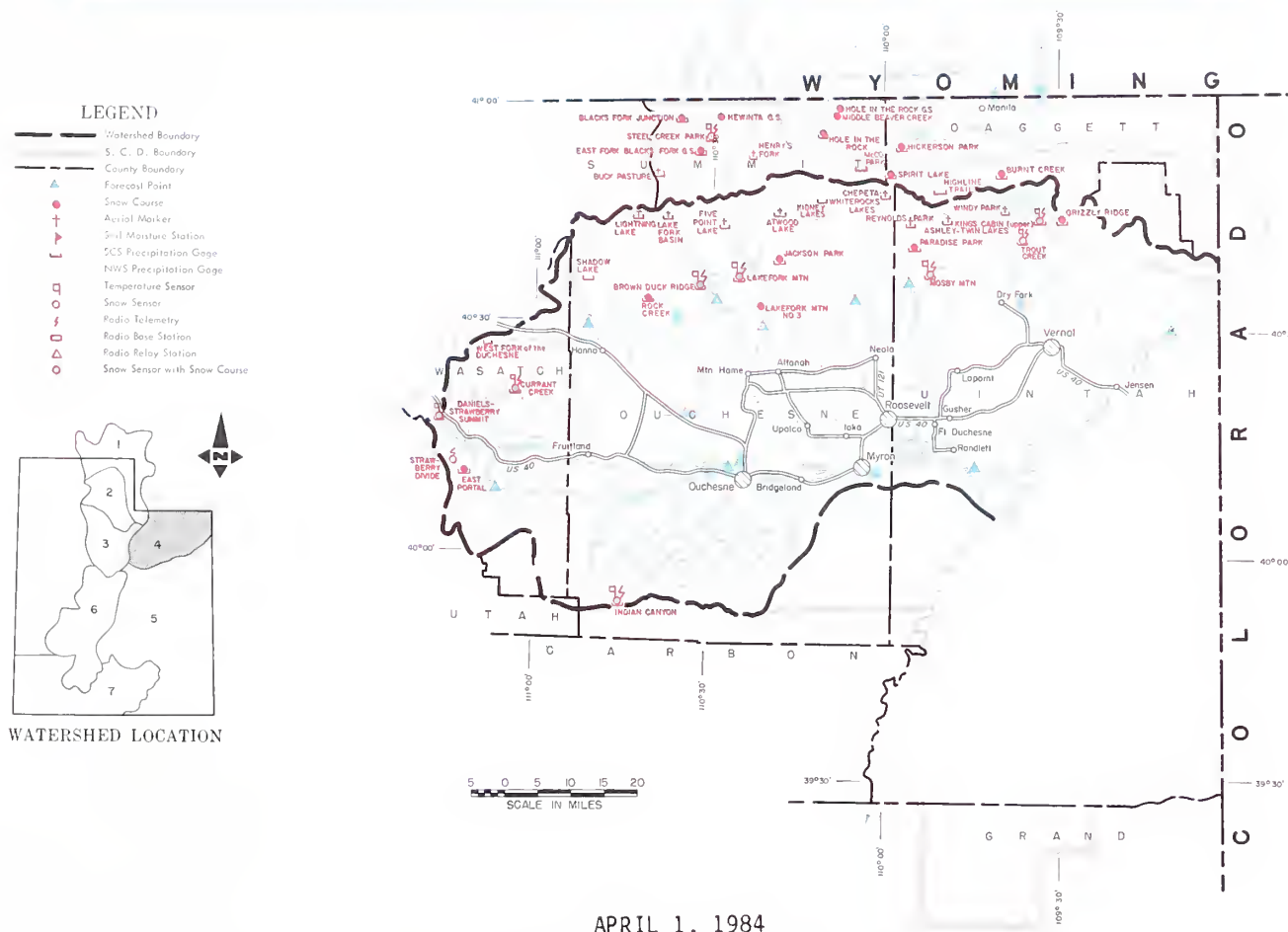


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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH



APRIL 1, 1984

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 109% of average on Lakefork-Yellowstone Creeks to 145% on Black's Fork. Strawberry River is 117% of average, Rock Creek 113%, Uintah-Whiterocks 110%, Ashley Creek 121%, Sheep Creek 142%, and Henry's Fork 123%. Most basins have 5 to 33% less snow than last year on April 1. The exception is Black's Fork which has 24% more than last year. Aerial markers showed deep snow in the head of Rock Creek and Lakefork Creek while others were closer to average.

PRECIPITATION at mountain stations ranged from 74% of the March average at Curren Creek to better than twice average at Moseby Mountain and Spirit Lake.

SOIL MOISTURE is above average and wetter than last year.

RESERVOIR STORAGE is above average in Moon Lake and Steinaker and all reservoirs are expected to fill as runoff progresses.

STREAMFLOW FORECASTS remained within ± 5 to 7% of a month ago except for Henry's Fork which raised 17%. The April 1st forecasts range from 111% for Flaming Gorge Inflow to 196% for the Duchesne at Myton. The Duchesne is forecast 127% for the West Fork, 126% at Tabiona, 121% at Duchesne and 187% at Randlett. Strawberry River is forecast 167% at Duchesne, Rock Creek 113%, Currant Creek 155%, Lakefork 120%, Yellowstone 114%, Uintah 130%, Whiterocks 138%, Ashley 127%, Henry's Fork 148% and Black's Fork 137% of the April-July average.

Peak flows are forecast to range from 118% of average (1510-1820 cfs) to 167% for Strawberry (920-1330 cfs). Ashley Creek is expected to be between (910-1410 cfs) or about 120% of average.

The above forecasts assume near normal temperatures and precipitation for the remainder of the melt season. All water users are expected to have adequate water supplies this season.

UINTAH BASIN AND DAGGETT SCD's IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	132	126	Apr-July	141	105
Duchesne at Duchesne 1/	228	121	Apr-July	290	189
Strawberry at Duchesne	97	167	Apr-July	185	58
Rock Creek nr Mtn. Home	105	113	Apr-July	--	93
Currant Creek nr Fruitland	31	155	Apr-July	54	20
Lakefork below Moon Lake 1/	84	120	Apr-July	--	70
Yellowstone nr Altonah	74	114	Apr-July	--	65
Duchesne at Myton 1/	402	196	Apr-July	--	205
Whiterocks nr Whitetock	80	138	Apr-July	97	58
Uintah nr Neola	112	130	Apr-July	--	86
Duchesne at Randlett 1/	481	187	Apr-July	--	257
West Fork Duchesne at Hanna	33	127	Apr-July	--	26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	71	148	Apr-Sept	162	48
Black's Fork nr Millburne	123	137	Apr-July	145	90
Flaming Gorge Inflow 1/	1380	111	Apr-July	--	1248
Ashley Creek nr Vernal	65	127	Apr-July	--	51

SUMMARY OF SNOW MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		PAST RECORD	
		Last Year	Average †
DUCHESNE RIVER - TOTAL	12	79	113
LAKEFORK-YELLOWSTONE CREEKS	4	76	109
STRAWBERRY RIVER	5	86	117
UINTAH - WHITEROCKS RIVERS	3	67	110
ASHLEY CREEK	3	78	121
BLACK'S FORK	4	124	145
SHEEP CREEK	3	95	142
HENRY'S FORK	3	77	123
<p>1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service</p>			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	USABLE CAPACITY	USEABLE STORAGE			
			THOUSAND ACRE FEET			
			This Year	Last Year	Average †	
ASHLEY CREEK	Red Fleet	26.0	18.0	22.4	--	
	Steinaker	33.3	26.2	30.6	22.6 ^b	
GREEN RIVER	Flaming Gorge	3749.0	3054.5	3173.8	--	
LAKE FORK	Moon Lake	35.8	29.4	31.9	18.3	
STRAWBERRY	Currant Creek	14.3	5.2	--	--	
	Starvation	165.3	102.6	117.0	114.1 ^b	
	Soldier Creek	951.4	60.0	35.1	--	
UINTAH	Bottle Hollow	11.3	11.1	11.1	10.6 ^b	

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	PAST RECORD	
	Last Year	Average †
Strawberry at Duchesne	920-1330	675
Ashley Creek nr Vernal	910-1410	966
Rock Creek nr. Mtn. Home	1510-1820	1415

SNOW

DRAINAGE BASIN and/or SNOW COURSE	NAME	THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	WATER CONTENT (Inches)	
					Last Year	Average †
Brown Duck Ridge		4/2	76	22.4	26.2	20.0
Burnt Creek		3/30	29	6.0	7.4	4.6 ^a
Currant Creek		3/30	31	11.1	14.3	9.2
Daniels-Strawberry		3/30	51	17.7	18.2	14.9
Grizzly Ridge		3/30	48	12.0	15.2	10.0 ^a
Hewinta G. S.		4/3	47	13.1	10.8	9.5 ^b
Hickerson Park		4/3	48	11.9	10.0	6.6 ^b
Jackson Park		4/3	58	13.9	20.2	12.8 ^b
Kings Cabin Upper		4/3	50	13.7	15.8	10.7

SNOW

DRAINAGE BASIN and/or SNOW COURSE	NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD	
					WATER CONTENT (Inches)	
					Last Year	Average †
Lakefork Mountain #1		4/2	50	11.8	16.5	11.5
Mosby Mountain		4/3	47	11.4	16.4	9.9
Paradise Park		4/3	53	14.4	21.9	13.3
Rock Creek Ranch		4/2	28	7.6	10.5	6.4
Spirit Lake		4/3	63	17.8	18.4	12.7 ^b
Steel Creek Park		4/3	67	20.8	18.5	16.1 ^b
Strawberry Divide		3/30	68	25.1	22.8	19.5
Trout Creek		4/3	51	12.4	17.8	10.6 ^a

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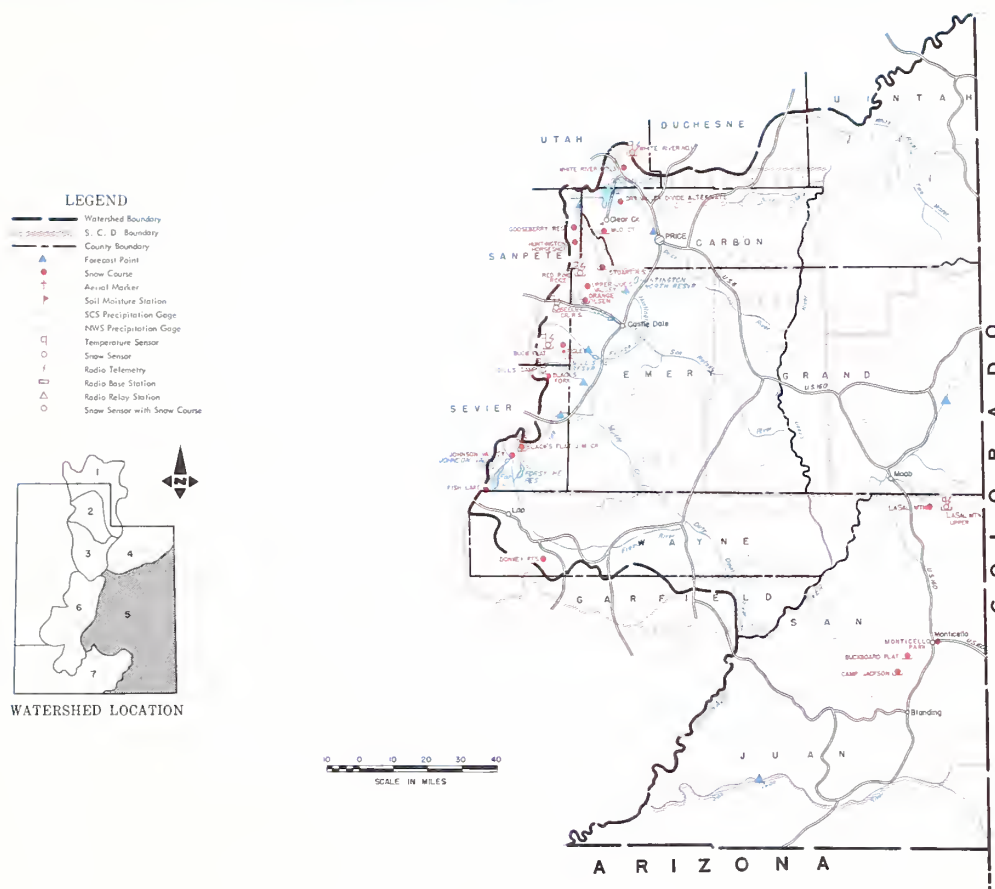
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WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1984

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER ranges from 83% of the April 1 average on Blue Mountains to 183% on Fremont River. The Price River is 136%, San Rafael 168%, Muddy 141% and LaSal Mountains 126%. Two snow courses (Buch Flat and Red Pine Ridge) on the San Rafael have exceeded the previous maximums for April 1st.

PRECIPITATION at mountain stations ranged from 57% of the March average at Camp Jackson on Blue Mountains to 226% at Fish Lake near Loa.

SOIL MOISTURE is still above average except on the Blue and LaSal Mountains where it is near average.

RESERVOIR STORAGE is near to above average except in Joe's Valley which has been drawn down to make space for runoff.

STREAMFLOW FORECASTS range from 131% of the April-July average for the San Juan at Bluff to 237% for the Price at Heiner. Scofield Reservoir Inflow is forecast 214% of average, Huntington Creek 188%, Cottonwood Creek 206%, Ferron Creek 208%, Muddy Creek 200%, Seven Mile Creek 182% and Mill Creek 165%. The Colorado River is forecast 171% near Cisco and Green River 146%.

All water users are expected to have an abundant water supply except from the Blue Mountains which may be near average.

Peak flows are generally expected to be about twice average except on Blue and LaSal Mountains and measures should be taken to protect property along stream channels again this year.

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST *	FORECAST	PERIOD	THOUSAND ACRES FEET	
	Thousand Acres Feet	Percent of Average		Last Year †	Average ‡
PRICE RIVER					
Gooseberry Crk nr Scofield	22	206	Apr-July	--	10.7
Scofield Reservoir Inflow	81	214	Apr-July	--	38
Price nr Heiner 1/	150	237	Apr-July	--	63
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	92	188	Apr-July	--	49
Cottonwood Crk nr Orangeville	97	206	Apr-July	159	47 ^b
Ferron Creek nr Ferron	77	208	Apr-July	75	37
MUDDY CREEK					
Muddy Creek nr Emery	37	200	Apr-July	44	18.5
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	5200	171	Apr-July	--	3046
Green at Green River, UT	4400	146	Apr-July	--	3016
Mill Creek nr Moab	9.1	165	Apr-July	12.4	5.5 ^b
Navajo Reservoir Inflow	800	110	Apr-July	--	684
San Juan nr Bluff, UT	1300	131	Apr-July	--	995
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	11.8	182	Apr-July	28	6.5 ^b

RESERVOIR STORAGE (Thousand Acres Foot)

BASIN OR STREAM	RESERVOIR	USABLE CAPACITY	USEABLE STORAGE		
			This Year	Last Year	Average ‡
PRICE RIVER	Scofield	65.8	44.4	38.3	33.3
SAN RAFAEL	Huntington North	3.9	2.8	3.7	3.8 ^b
	Joe's Valley	54.6	37.5	45.1	45.6 ^b
	Mill Site	16.7	13.9	16.7	4.6 ^b
SAN JUAN	Navajo	1696.0	1333.0	1323.7	--
	Kens Lake	2.3	0.7	0.9	--

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	NUMBER of GAGES AVERAGED	THIS YEAR AS A PERCENT OF	
		Last Year	Average ‡
PRICE RIVER	4	100	136
SAN RAFAEL RIVER	8	102	168
FREMONT RIVER	4	115	183
LASAL MOUNTAINS	2	75	126
BLUE MOUNTAINS	2	47	83
MUDDY RIVER	2	100	141
1 - Observed flow corrected for change in storage and diversions			
2 - Inflow record as computed by U. S. Bureau of Reclamation			
3 - Provisional flows - Subject to Correction			
a - Partly estimated			
b - Average of all past record - less than 20 years			
e - Maximum mean daily peak flow			
+ - 1961-80 20 year Average Period			
* - Forecast in cooperation with National Weather Service			

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ‡
Ferron Creek near Ferron	800-950	422
Muddy Creek near Emery	250-380	154
Huntington Cr. near Huntington	1000-1200	850

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average ‡
Buck Flat	3/28	75	28.3	26.8	16.9
Buckboard Flat	3/28	37	11.8	19.6	13.1
Camp Jackson	3/28	32	9.8	25.5	12.8
Dills Camp	3/28	54	17.3	17.6	12.5
Dry Valley Divide Alternate	3/29	42	15.2	15.1	10.8 ^d
Huntington-Horseshoe	3/31	94	41.3	47.0	24.4
Indian Canyon	3/31	49	11.4	20.3	13.2
LaSal Mtn. Upper	3/29	64	20.3	27.7	16.6
Mammoth-Cottonwood R.S.	3/29	77	32.6	33.6	21.8

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average ‡
Monticello City Park				0.0	0.0 ^d
Mud Creek	3/29	53	18.0	18.4	13.5
Red Pine Ridge	3/29	70	27.2	24.0	17.5
Seeley Creek	3/29	84	37.6	26.6	17.2
Stuart R.S.	3/29	34	13.1	13.2	7.8
Upper Joe's Valley	3/29	47	17.1	15.0	10.5
White River #1	3/31	54	18.1	17.8	13.7
White River #3	3/31	29	10.4	10.0	7.2
Wrigley Creek	3/28	50	14.7	18.0	11.5

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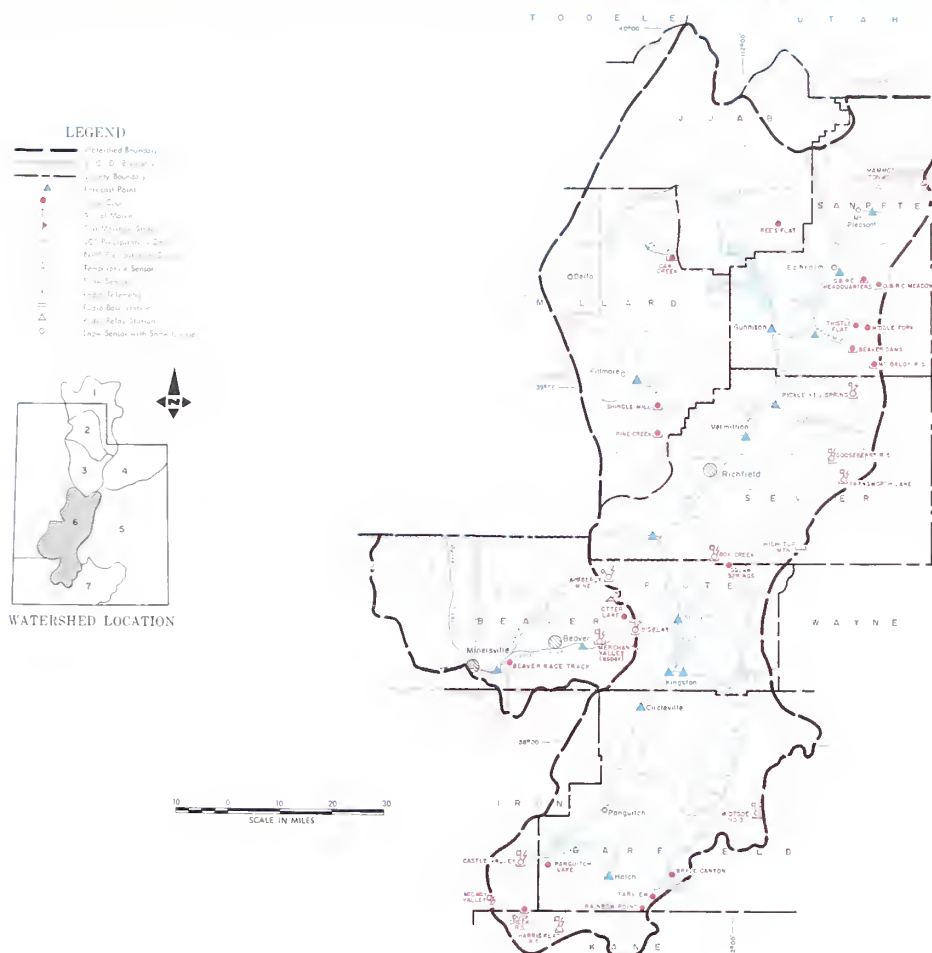
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WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1984

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE TO WELL ABOVE AVERAGE

SNOW COVER ranges from 88% of average on the South Fork Sevier to 172% on the Lower Sevier-San Pitch. East Fork Sevier is 102% and Beaver River 146% of the April 1 average. Chalk Creek is better than twice average. New records for April 1 were recorded at Farnsworth Lake, Gooseberry R.S. and Pickle Keg Springs on Salina Creek.

PRECIPITATION at mountain stations ranged from 23% of the March average at Midway Valley to 198% at Shingle Mill near Fillmore.

SOIL MOISTURE is wetter than average on the Lower Sevier, Beaver and Chalk Creeks but drier than average on the Upper Sevier.

RESERVOIR STORAGE is above average in all reservoirs except Gunnison Reservoir.

STREAMFLOW FORECASTS range from 125% of the April-July average for the Sevier at Hatch to 712% for the Inflow Sigurd to Gunnison on the Lower Sevier. Other Sevier River forecasts are as follows: 161% at Circleville, 168% at Kingston, 196% for East Fork Sevier, 216% for Antimony Creek, 175% for Clear Creek, 231% for Salina Creek, 679% Vermillion to Gunnison, and 447% for the Sevier near Gunnison.

Chalk Creek near Fillmore is forecast 415% of average, Chicken Creek 200%, Oak Creek 156%, and Salt Creek 200% of the April-July average. Ephriam Creek is forecast 235%, and Pleasant Creek 256% of average. Other San Pitch tributaries are also expected to produce about twice average flows. Beaver River is forecast 235% near Beaver, North Creeks 240%, and Inflow to Minersville 382% of average.

Peak flows on the Lower Sevier and Beaver are expected to be 2 to 3 times average and steps should be taken to protect property near stream channels and in low lying areas again this season.

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST *		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year †	Average ‡
SEVIER RIVER					
Sevier at Hatch	60	125	Apr-July	--	48
Sevier nr Circleville	62	161	Apr-July	--	38
Sevier nr Kingston	48	168	Apr-July	--	28
Antimony Crk nr Antimony	16	216	Apr-July	--	10.3
East Fork Sevier nr Kingston	37	196	Apr-July	--	18.9
Sevier below Piute Dam	75	167	Apr-July	--	45
Clear Crk nr Sevier (abv Div)	33	175	Apr-July	--	18.9
Sigurd to Gunnison	185	712	Apr-July	--	26
Kingston to Vermillion Dam	90	270	Apr-June	--	45
Vermillion Dam to Gunnison	190	679	Apr-June	--	25
Salina Creek at Salina	27.5	231	Apr-June	--	11.9
Sevier nr Gunnison	240	447	Apr-July	--	54
Chalk Creek nr Fillmore	68	415	Apr-July	--	16.4 ^b
Chicken Creek nr Levan	7.0	200	Apr-July	24	3.5 ^b
Oak Cr. nr Oak City	2.5	156	Apr-July	4.5	1.6 ^b
Ephraim Creek nr Ephraim	35	235	Apr-July	--	14.9
Pleasant Crk nr Mt. Pleasant	22	256	Apr-July	--	8.6
Salt Creek nr. Nephi	27	200	Apr-July	--	13.5
Beaver nr Beaver	54	235	Apr-July	72	23
North Creek (Combined)	35	240	Apr-July	--	14.6 ^a
Minersville Inflow	34	382	Apr-June	--	8.9

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	USABLE CAPACITY	USEABLE STORAGE		
			This Year	Last Year	Average †
SEVIER RIVER	Gunnison	18.2	13.8	15.7	16.3 ^b
	Otter Creek	52.5	50.2	50.2	35.8
	Piute	71.8	58.0	58.0	46.2
	Sevier Bridge	236.0	221.3	232.0	136.2
	Panguitch Lake	22.3	20.9	21.0 ^a	--
BEAVER RIVER	Minersville (Rky Fd)	26.0	24.0	24.6	14.3

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUBWATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER			
East Fork Sevier	4	54	102
South Fork Sevier	6	46	88
LOWER SEVIER	14	110	172
BEAVER RIVER	4	82	146

- 1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U. S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 a - Partly estimated
 b - Average of all past record - less than 20 years
 e - Maximum mean daily peak flow
 + - 1961-80 20 year Average Period
 * - Forecast in cooperation with National Weather Service

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Beaver River nr Beaver	520-790	257
Sevier River at Hatch	550-750	484
Sevier River nr Kingston	500-700	312
Clear Creek nr Sevier	350-450	226
Salina Creek nr Salina	700-900	285

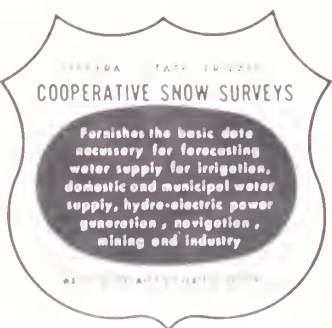
SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Big Flat	3/25	73	27.1	31.2	18.3
Bryce Canyon	3/30	9	1.0	12.4	4.0
Castle Valley	3/25	42	14.7	26.0	12.9
Duck Creek	3/25	21	6.5	25.4	14.3
Farnsworth Lake	3/28	98	33.8	25.9	19.7
Gooseberry R.S.	3/27	66	21.1	15.0	12.4
Harris Flat	3/25	5	1.7	17.4	8.7
Kimberly Mine	3/25	68	24.4	24.5	16.7

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Long Valley Junction	3/25	0	0.0	5.3	4.2
Merchants Valley Upper	3/25	53	18.2	21.7	11.7 ^b
Midway Valley	3/25	49	17.8	44.8	23.3
Oak Creek	3/27	66	19.5	25.2	12.4 ^a
Otter Lake	3/25	55	19.3	25.6	14.2
Pickle Keg Springs	3/28	81	28.9	25.8	17.2 ^b
Pine Creek	3/25	88	32.7	30.8	16.0 ^b
Widtsoe-Escalante #3	3/25	32	8.7	21.5	11.8

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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



APRIL 1, 1984

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from only 26% of average in the Enterprise-New Harmony area to 121% on Parowan Creek. Coal Creek snow cover is 65% of average, Virgin River 50%, and Escalante River 74% of the April 1 average.

PRECIPITATION at mountain stations ranged from 15% of average at Little Grassy to 109% at Tall Poles.

SOIL MOISTURE is near average.

RESERVOIR STORAGE is reported as below average in the Enterprise Reservoirs and not expected to fill this season unless storms produce more water in this area.

STREAMFLOW FORECASTS now range from 95% of average on the Virgin to 154% for Lake Powell Inflow. Santa Clara is forecast 104% of average and Coal Creek 114% of the April-July average.

Peak flows from snow melt are expected to be near average and not expected to cause problems in this area this season.

Water users are expected to have near average water supplies this season.

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST *		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ‡	Average †
VIRGIN RIVER					
Virgin nr Hurricane	59	95	Apr-June	171	62
Santa Clara nr Pine Valley	5.5	104	Apr-June	--	5.3
COAL CREEK					
Coal Creek nr Cedar City	21	114	Apr-July	54	18.4
UPPER COLORADO					
Lake Powell Inflow	11500	154	Apr-July	--	7462

SUMMARY of SNOW MEASUREMENTS

DRAINAGE BASIN and/or SUBWATERIAGED	NUMBER of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	
		Last Year	Average †
COAL CREEK	3	30	65
VIRGIN RIVER	3	27	50
PAROWAN CREEK	4	70	121
ENTERPRISE - NEW HARMONY	2	12	26
ESCALANTE RIVER	1	40	74
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year		
			Last Year	Average †	
COLORADO	Lake Powell	25002.0	21057.0	22603.0	--
	Blue Mesa	829.5	245.1	3173.8	--

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	This Year	
	Last Year	Average †
Coal Creek nr Cedar City	275-375	220
Virgin nr Hurricane	800-1100	1092

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Birch Crossing	3/29	33	10.9	11.7	6.3 ^b
Brian Head	3/25	62	22.1	34.3	21.6 ^b
Harris Flat	3/25	5	1.7	17.4	8.7
Kolob-Crystal	3/25	45	12.9	44.9	25.1
Little Grassy	3/25	0	0.0	1.6	2.8
Long Flat	3/25	9	2.5	18.3	6.8

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Long Valley Junction	3/25	0	0.0	5.3	4.2
SUSC Ranch	3/29	15	3.8	24.0	8.2 ^b
Tall Poles	3/29	56	18.3	27.7	15.3 ^b
Webster Flat	3/25	36	11.5	38.2	18.7
Yankee Reservoir	3/25	39	13.1	17.9	10.0

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DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER											
(Above Harer, Idaho)											
Burts-Miller Ranch	4/3	26	7.1	4.8	6.1	4/3	2.73	--	11.30	12.00 ^b	94
CCC Camp	3/29	44	14.0	10.0	13.2						
Hayden Fork	4/3	54	18.3	14.4	16.0 ^b	4/3	4.69 ^a	--	23.86 ^a	20.06 ^b	118
Monte Cristo R.S.	3/28	74	29.0	23.4	26.1	3/28	3.59	4.68	29.19	25.95	112
Salt River Summit	3/29	51	15.8	14.0	17.0	3/29	2.30	2.97	18.71	17.23	110
Stillwater Camp	4/3	43	13.0	10.0	11.1	4/3	3.14	--	16.33	12.39	131
Lily Lake	4/3	55	17.9	14.4	14.5 ^a	4/3	4.07	--	19.97	--	--
LOWER BEAR RIVER											
(Below Harer, Idaho)											
Bug Lake	3/29	66	23.2	15.8	20.4 ^a	3/29	0.98	--	23.68 ^a	--	--
Christensen Ranch	3/30		14.6 ^a	7.4	7.8						
Cliff Canyon	3/29	37	12.3	24.3	9.7 ^a						
Cub River R.S.	3/29	38	15.2	5.3	7.1						
Daniels Creek	3/29	25	8.7	7.2	4.7 ^a						
Dry Basin	3/29	107	40.6	30.7	30.7 ^a						
Dry Creek Flat	3/29	38	14.9	6.2	5.2						
Emigrant Summit	3/30	85	32.8	26.1	25.7			--	--		
Emigration Canyon	3/30	39	14.1	9.8	11.0						
Franklin Basin	3/29	82	31.3	24.6	28.3	3/29	5.06 ^a	--	37.68 ^a	--	--
Garden City Summit	3/29	57	20.7	15.9	18.7	3/29	2.07	3.43	23.01	19.23	119
Horseshoe Basin	3/29		35.2 ^a	29.4	28.7 ^a						
Klondike Narrows	3/29	62	24.9	18.2	20.9	3/29	2.17	4.25 ^b	25.10	23.85 ^b	105
Liberty Spring	4/1		50.6 ^a	40.8	40.3						
Little Bear (lower)	3/28	38	13.6	9.0	10.2						
Little Bear (upper)	3/28	48	18.2	10.8	13.2	3/28	2.69	2.91 ^b	28.89	18.13 ^b	159
Lower Elkhorn	3/29	47	17.3	18.4	14.0 ^a						
Oxford Mountain	3/29	43	16.4	9.0	9.5						
Slug Creek Divide	3/29	53	18.3	14.7	18.0						
Steep Hollow #1	3/29	112	43.0	36.4	38.0						
Steep Hollow #2	3/29	80	31.5	26.5	27.3						
Strawberry Creek	3/30	46	19.0	9.2	10.3						
Strawberry Mink Divide	3/29	79	30.5	20.5	22.5						
Tony Grove Lake	3/29	126	47.9 ^a	31.1	37.2 ^a	3/29	7.00 ^a	4.16 ^b	42.62 ^a	--	--
Tony Grove R.S.	3/29	45	18.0	10.4	12.0	3/29	2.14	2.85 ^b	24.94	--	--
Upper Elkhorn	3/29	64	21.9	25.5	19.5 ^a						
Willow Flat	3/29	63	25.1	12.9	15.4	3/29	1.60 ^a	4.04	30.03 ^a	22.89	131
Worm Creek	3/29	73	29.5	17.5	20.3 ^a						
UPPER RAFT RIVER											
Clear Creek Meadows	3/28	84	27.4	35.8	22.1 ^b						
George Peak	3/28	94	36.0	39.5	28.3 ^a						
One Mile Summit	3/28	34	12.0	7.9	7.6 ^b						
Vipont	3/28	69	26.0	19.8	15.8 ^b						
OGDEN RIVER											
Beaver Creek-Skunk Creek	3/28	42	16.6	11.7	12.4						
Ben Lomond Peak	3/28	154	63.1 ^a	45.0	38.3	3/28	8.63 ^a	6.17 ^b	63.23 ^a	47.13 ^b	134
Ben Lomond Trail	3/28	70	30.4	23.6	17.5	3/28	2.75 ^a	3.76 ^b	39.72 ^a	28.74 ^b	138
Causey Dam	3/28	0	0.0	0.0	0.0	3/28	1.43	2.31 ^b	17.14	14.22	120
Dry Bread Pond	3/28	62	24.2	18.7	19.5	3/28	2.00 ^a	3.88 ^b	28.32 ^a	20.84	135
Sagebrush Flat	3/28	10	3.2	1.0	2.0	3/28	1.45	2.28 ^b	15.22	14.35	106
WEBER RIVER											
Beaver Creek R.S.	3/31	32	12.2	9.8	7.6						
Chalk Creek #1	3/31	72	27.4	24.1	22.6	3/31	3.75 ^a	3.40 ^b	27.77 ^a	17.70	156
Chalk Creek #2	3/31	52	18.2	15.5	15.5	3/31	3.00	3.11 ^b	18.32	16.17 ^b	113
Chalk Creek #3	3/31	30	10.1	7.8	7.6	3/31	2.36	2.68 ^b	18.75	13.94 ^b	134
East Shingle Lake (A)	4/6	93	35.3	--	28.9 ^a						
Farmington Canyon (lower)	3/28	90	35.6	35.1	24.2 ^b	3/28	3.97	5.23 ^b	35.73	27.63	129
Farmington Canyon (upper)	3/28	106	43.4	45.1	31.8	3/28	3.30 ^a	--	38.50 ^a	--	--
Farmington G.S.	3/28	87	34.8 ^a	27.6 ^a	--	3/28	3.50 ^a	5.49 ^b	32.60 ^a	29.01	112
Hardscrabble	4/3	72	28.8	25.6	--						
Horse Ridge	3/28	69	27.5	20.8	22.3 ^b	3/28	3.51	4.24 ^b	31.45	23.64	133
Kilfoil Creek	3/28	53	17.8	14.9	14.4 ^b						
Lost Creek Reservoir	3/28	16	6.5	0.0	2.4 ^a	3/28	1.06	1.81 ^b	14.09	10.97 ^b	128
Park City Summit	4/4	85	36.2	--	33.4 ^a						
Parley's Canyon Summit	3/28	73	26.5	21.4	18.8	3/28	3.79	4.07	28.90	22.55	128
Pine Canyon	3/28	63	24.2	19.5	16.0 ^a						
Redden Mine (lower)	3/31	61	23.5	21.3	18.4	3/31	3.77	--	18.94	--	--
Smith & Morehouse	3/31	48	17.6	13.8	13.3	3/31	3.33	3.04	20.82	17.75	117
Sargeant Lake (A)	4/6	70	26.6	--	18.8 ^a						

SNOW

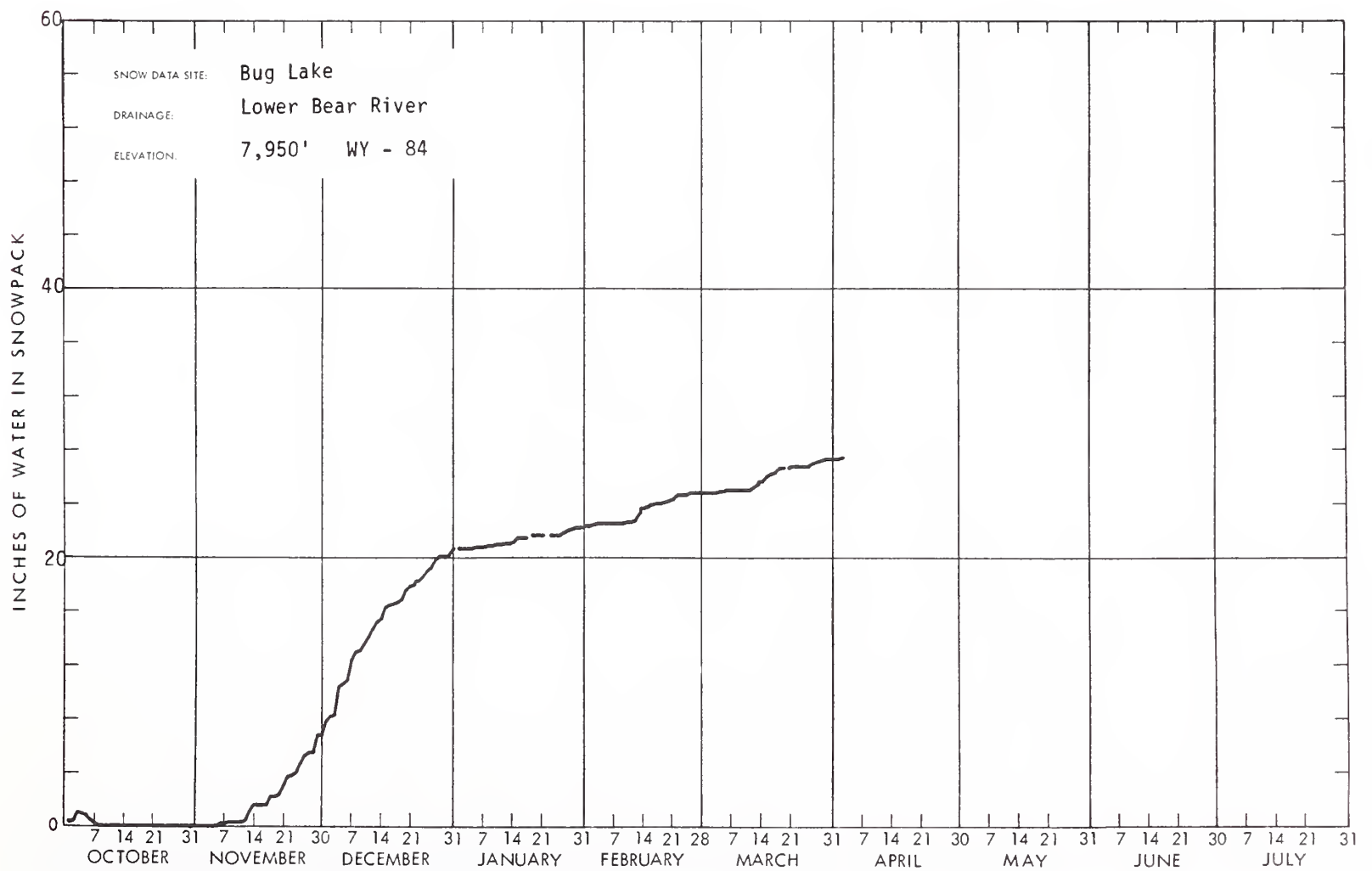
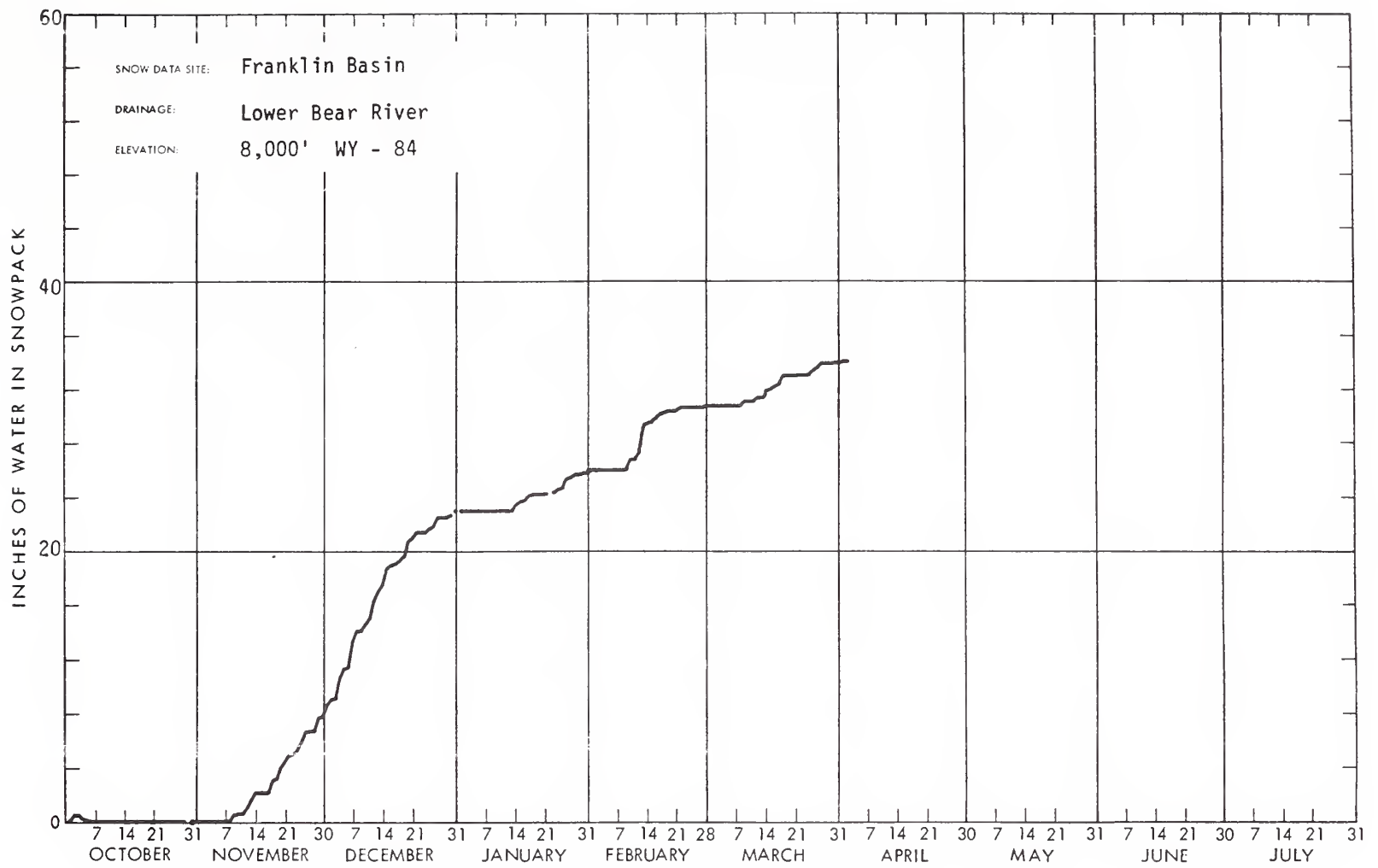
SNOW	THIS YEAR				PAST RECORD		PRECIPITATION (Inches)					
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME												
GREAT BASIN CONT.												
PROVO RIVER & UTAH LAKE												
Beaver Creek Divide	3/31	41	14.8	13.2	11.8 ^a	3/31	3.06 ^a	--	20.62 ^a	--	--	
Clear Creek Ridge #1	3/29	65	25.2	24.3	19.1	3/29	3.75 ^a	5.40 ^b	24.75	21.20 ^b	116	
Clear Creek Ridge #2	3/29	56	19.5	17.4	14.2	3/29	3.08	2.71 ^b	19.88	16.06 ^b	123	
Clear Creek Ridge #3	3/29	26	10.4	8.7	5.8							
Hobble Creek Summit	3/30	55	21.6	19.7	14.3	3/30	2.92	2.70	22.85 ^a	17.19	132	
Payson R.S.	3/30	77	29.1	27.9	19.1	3/30	4.82	2.90	26.06	17.95	145	
Soapstone R.S.	3/31	45	14.6	11.9	12.1	3/31	2.84	2.40	20.93	16.22	129	
South Fork R.S.	3/31	28	10.4	17.1	3.9							
Timpanogos Divide	3/31	64	22.8	34.2	25.0	3/31	3.55	3.36	27.54	25.09	109	
Trial Lake	3/31	69	26.3	26.8	24.5	3/31	3.27	3.77	28.25	23.84	118	
JORDAN RIVER & GREAT SALT LAKE												
Bevan's Cabin	4/3	70	23.4	15.3	11.3							
Deseret Peak	4/3	116	40.9	39.9	21.7 ^a							
Lamb's Canyon #2	3/28	62	23.5	19.8	16.2 ^a	3/28	2.70	--	20.79	--	--	
Middle Canyon	4/3	78	27.0	18.2	14.4	4/3	--	3.39	29.35	15.92	184	
Mill Creek	3/27	74	26.0	24.1	20.9 ^a							
Mill D South Fork	3/29	64	24.6	24.6	19.8							
Rocky Basin-Settlement	4/3	128	45.4	46.0	27.5 ^b							
Silver Lake (Brighton)	3/29	76	28.2	31.0	25.8							
Snow Bird (Gad Valley)	3/24	112	47.0	--	35.3 ^a							
Vernon Creek	3/31	62 ^a	21.6 ^a	12.2	10.2 ^a	3/31	1.80 ^a	2.51	20.30 ^a	15.27	132	
COLORADO RIVER DRAINAGE												
UPPER GREEN RIVER - UTAH												
Ashley-Twin Lakes (A)	4/6	60	16.2	--	17.7 ^a							
Black's Fork G.S.-East Fork	4/3	48	15.1	9.9	9.5	4/3	3.77 ^a	2.43	16.76	11.94	140	
Black's Fork Junction	4/3	45	11.0	8.9	9.6	4/3	2.70	2.25	14.92	11.62	128	
Buck Pasture (A)	4/6	63	19.5	--	15.4 ^a							
Burnt Creek	3/30	29	6.0	7.4	4.6 ^a	3/28	2.00	1.51 ^b	13.20	8.83 ^b	149	
Grizzly Ridge	3/30	48	12.0	15.2	10.0 ^a	3/28	2.75	2.23 ^b	16.80	12.78	131	
Henrys Fork (A)	4/6	52	16.1	--	13.5 ^a							
Hewinta G.S.	4/3	47	13.1	10.8	9.5 ^b	4/3	3.56	2.50	17.00	12.56	135	
Hickerson Park	4/3	48	11.9	10.0	6.6 ^b	4/3	3.36	1.76 ^b	11.97	9.41 ^b	127	
Hole-in-the-Rock	3/28	34	6.7	8.6	5.9 ^b							
Hole-in-the-Rock G.S.	3/28	20	5.6	6.6	2.4 ^b							
King's Cabin (upper)	4/3	50	13.7	15.8	10.7	4/3	3.65	1.90	16.59	11.14	148	
Middle Beaver Creek	3/28	22	4.5	6.6	5.3 ^b							
Reynolds Park (A)	4/6	69	18.6	--	16.9 ^a							
Spirit Lake	4/3	63	17.8	18.4	12.7 ^b	4/3	5.28	2.57 ^b	17.85	13.61 ^b	131	
Steel Creek Park	4/3	67	20.8	18.5	16.1 ^b	4/3	3.88	2.75 ^b	18.04	20.85 ^b	86	
Trout Creek	4/3	51	12.4	17.8	10.6 ^a	4/3	4.01	--	13.30	--	--	
DUCHESNE RIVER												
Atwood Lake (A)	4/6	48	11.5	--	11.2 ^a							
Brown Duck Ridge	4/2	76	22.4	26.2	20.0	4/2	2.88	3.41 ^b	22.97	20.70 ^b	110	
Chepeta	4/3	58	15.1	20.0	--	4/3	2.87 ^a	--	15.77 ^a	--	--	
Chepeta-Whiterocks (A)	4/6	59	15.3	--	15.3 ^a							
Currant Creek	3/30	31	11.1	14.3	9.2 ^a	3/30	1.60	2.14 ^b	15.84	13.79 ^b	114	
Daniels-Strawberry Summit	3/30	51	17.7	18.2	14.9	3/30	2.77	2.68	21.38	17.81	120	
East Portal	3/30	50	15.0	17.2	11.8	3/30	2.30	2.51 ^b	23.08	16.73	137	
Five Points Lake (A)	4/6	66	15.8	--	17.8 ^a							
Indian Canyon	3/31	49	11.4	20.3	13.2	3/31	2.16	1.91	14.85	12.78	116	
Jackson Park	4/3	58	13.9	20.2	12.8 ^b	4/3	2.96	--	18.45 ^a	12.68	145	
Lakefork Basin (A)	4/6	75	18.0	--	20.7 ^a							
Lakefork Mountain #1	4/2	50	11.8	16.5	11.5	4/2	2.25	2.08	15.00	12.62	118	
Lakefork Mountain #3	4/3	29	7.1	8.9	5.9							
Lightning Lake (A)	4/6	96	27.8	--	21.6 ^a	4/4	4.70 ^a	--	31.50 ^a	--	--	
Mosby Mountain	4/3	47	11.4	16.4	9.9	4/3	3.50	1.47 ^b	16.08	12.00	134	
Paradise Park	4/3	53	14.4	21.9	13.3	4/3	3.13	1.78 ^b	15.59	13.05	119	
Rock Creek Ranch	4/2	28	7.6	10.5	6.4	4/2	3.23	--	14.63	11.04	132	
Strawberry Divide	3/30	68	25.1	22.8	19.5	3/30	3.00	--	25.50	--	--	

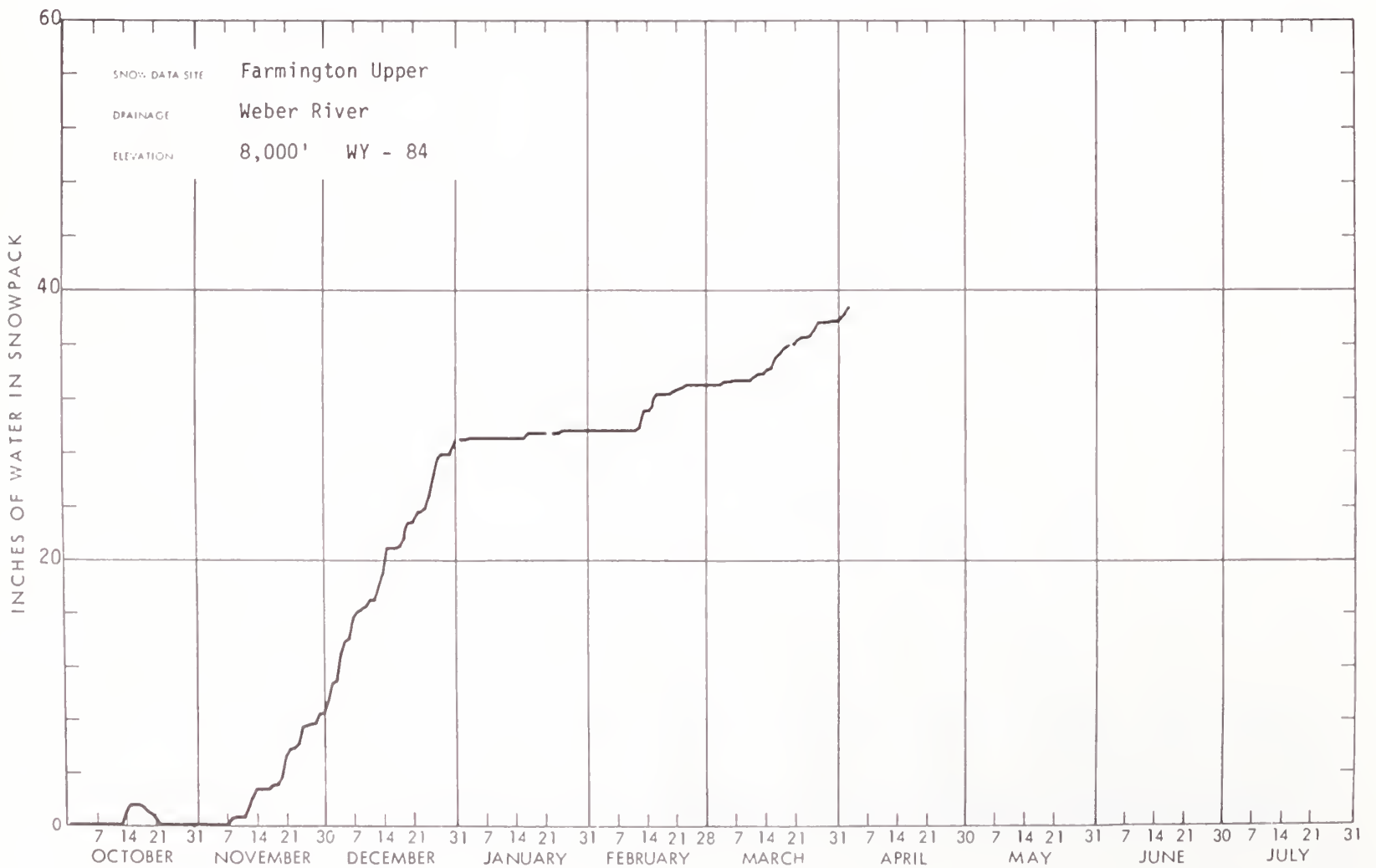
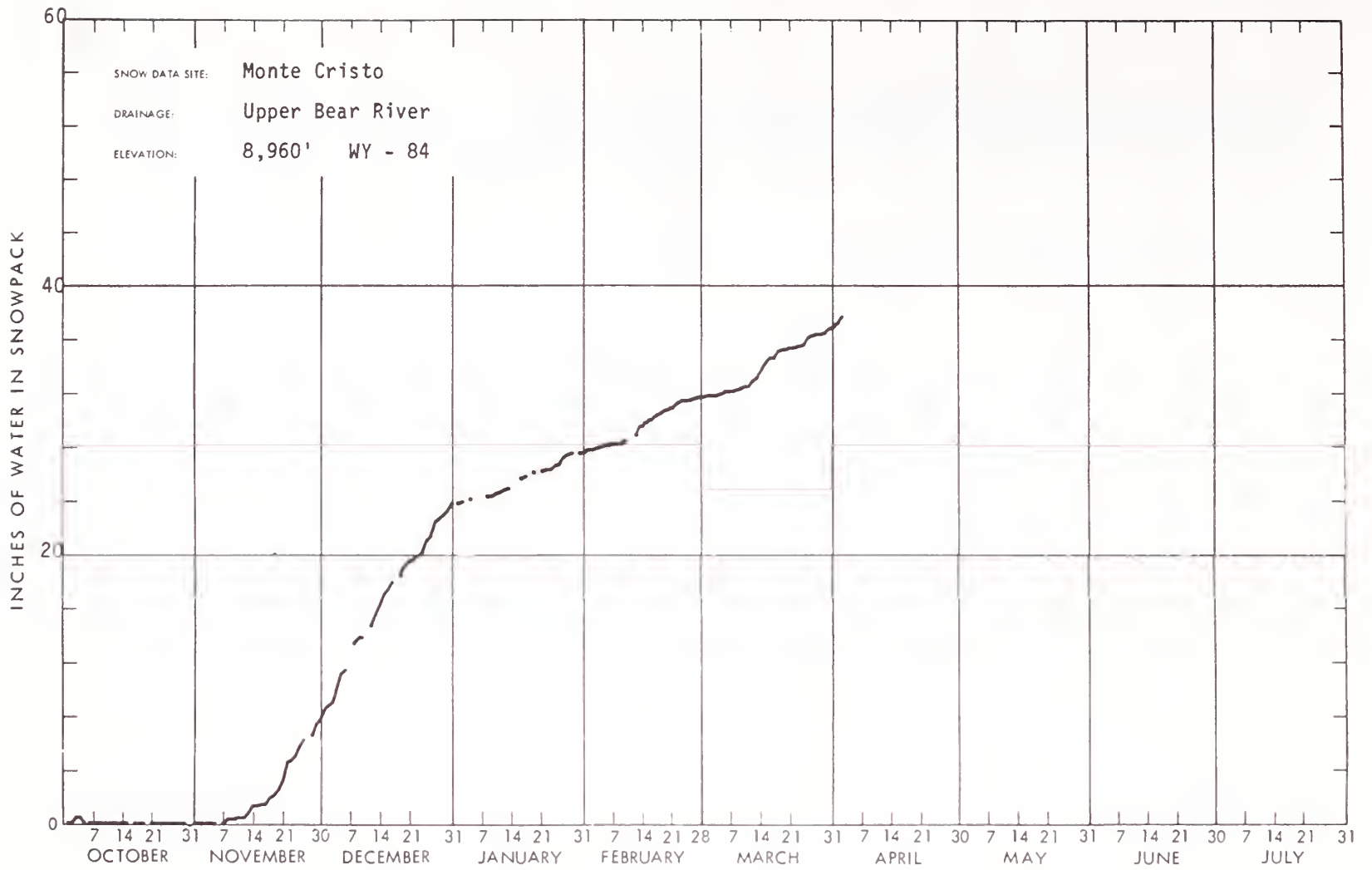
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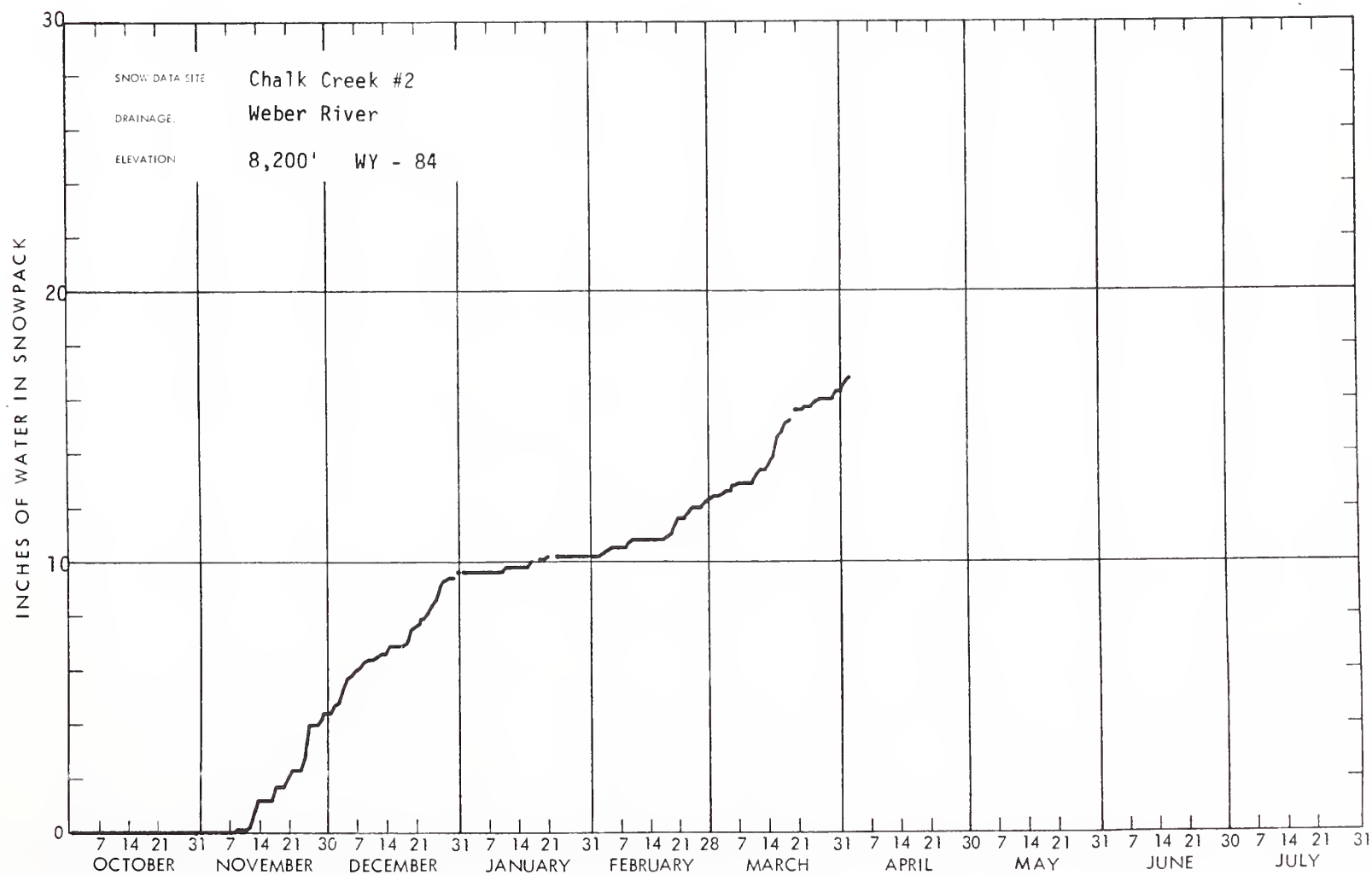
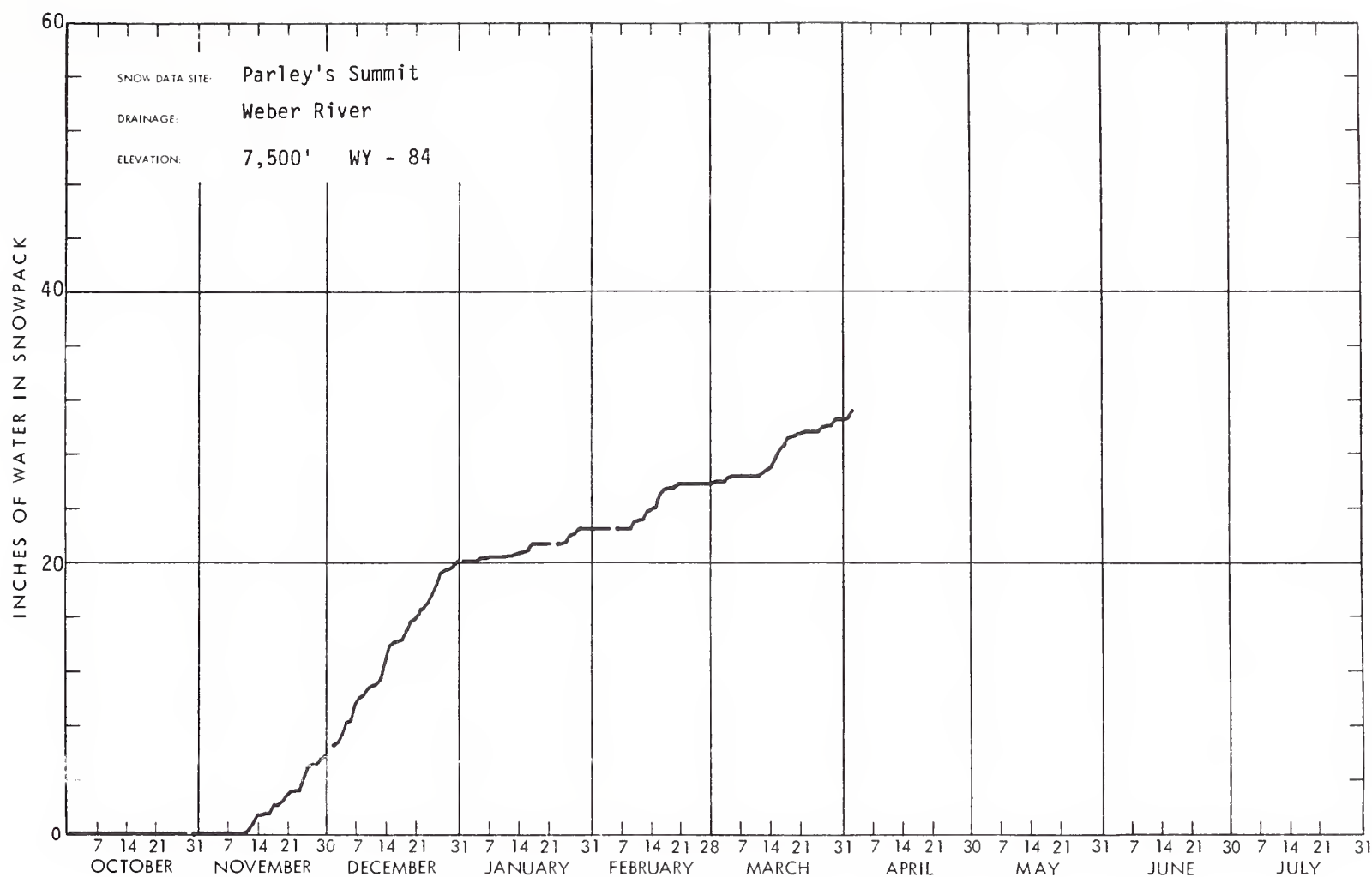
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
PRICE RIVER											
Dry Valley Divide Alternate	3/29	42	15.2	15.1	10.8 ^a						
Mud Creek	3/29	53	18.0	18.4	13.5	3/29	2.24	2.56	20.98	14.25	147
White River #1	3/31	54	18.1	17.8	13.7	3/31	2.72	2.14	19.36	13.22	146
White River #3	3/31	29	10.4	10.0	7.2						
SAN RAFAEL RIVER											
Buck Flat	3/28	75	28.3	26.8	16.9	3/28	4.30	2.71	27.18	17.21	157
Huntington-Horseshoe	3/31	94	41.3	47.0	24.2						
Orange Olsen	3/29	17	6.1	8.0	2.4 ^a	3/29	1.20	1.01 ^b	11.95	7.40	161
Red Pine Ridge	3/29	70	27.2	24.0	17.5	3/29	2.73	3.54	25.46	19.79	128
Seeley Creek R.S.	3/29	84	34.6	26.6	17.2						
Stuart R.S.	3/29	34	13.1	13.2	7.8	3/29	1.06	1.20 ^b	17.06 ^a	11.62	146
Upper Joe's Valley	3/29	47	17.1	15.0	10.5						
Wrigley Creek	3/28	50	14.7	18.0	11.5						
MUDDOY RIVER											
Black's Fork	3/28	60	19.8	19.3	13.7						
Oill's Camp	3/28	54	17.3	17.6	12.5	3/28	3.60	2.30 ^b	22.18	14.40 ^b	154
FREMONT RIVER											
Black's Flat-U.M. Creek	3/27	60	17.4	15.9	11.0	3/27	4.08	2.46 ^b	18.92	12.10 ^b	156
Oonkey Reservoir	3/28	32	7.4 ^a	10.0	7.8 ^b						
Fish Lake	3/28	61	22.4 ^a	16.0	7.7	3/28	3.80 ^a	1.68	20.60 ^a	9.18	224
Johnson Valley	3/27	54	14.4	11.3	7.0						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	3/28	37	11.8	19.6	13.1	3/28	2.15	2.96	18.92	18.14	104
Camp Jackson	3/28	32	9.8	25.5	12.8	3/28	1.45	2.51	15.33	16.78	91
LaSal Mountain (lower)	3/29	41	13.2	16.4	9.9						
LaSal Mountain (upper)	3/29	64	20.3	27.7	16.6	3/29	4.45	3.14	23.46	14.18	165
Monticello City Park				0.0	0.0 ^a						
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	3/25	57	19.8	21.5	13.7	3/25	2.73	2.79	20.63	13.89	148
Bryce Canyon	3/30	9	1.0	12.4	4.0						
Castle Valley	3/25	42	14.7	26.0	12.9	3/25	2.06	2.77	19.09	13.89	137
Duck Creek R.S.	3/25	21	6.5	25.4	14.3	3/25	0.91	3.28 ^b	15.80	16.53	95
Harris Flat	3/25	5	1.7	17.4	8.7	3/25	0.31 ^a	--	8.07 ^a	--	--
Kimberly Mine	3/25	68	24.4	24.5	16.7	3/25	4.77	3.79 ^b	25.95	18.17	142
Midway Valley	3/25	49	17.8	44.8	23.2	3/25	0.88 ^a	3.71 ^b	19.03 ^a	19.17 ^b	99
Panguitch Lake	3/25	16	5.9	14.2	4.0	3/25	0.83	1.38	9184	7.89	124
Squaw Springs	3/25	34	8.2	13.8	7.4						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	3/28	57	22.0	16.9	11.8	3/28	4.02	2.41	26.92	13.07	205
Farnsworth Lake	3/28	98	33.8	25.9	19.7	3/28	8.57	4.33	29.17	19.56	149
G.B.R.C. Headquarters	3/29	82	30.1	24.4	17.5	3/29	6.06	4.08	29.82	18.29	163
G.B.R.C. Majors											
G.B.R.C. Meadows	3/29	99	37.9	36.6	23.7	3/29	5.71	4.10	32.85 ^a	21.67	151
G.B.R.C. Oaks											
Gooseberry Reservoir						3/29	3.68	3.60	28.80	21.71	132
Gooseberry R.S.	3/27	66	21.1	15.0	12.4	3/27	5.16	3.04 ^b	22.61	12.91 ^b	175
Mammoth-Cottonwood Creek	3/29	77	32.6	33.6 ^a	21.8	3/29	2.57 ^a	--	29.47 ^a	--	--
Middle Fork	3/28	127	46.7	39.7	24.5						
Mt. Baldy R.S.	3/28	103	39.4	36.4	23.7	3/28	4.76	3.14	25.19	16.90	149
Oak Creek	3/27	66	19.5	25.2	12.4 ^a	3/27	4.21	--	23.93	13.78 ^b	--
Pickle Keg Springs	3/28	81	28.9	25.8	17.2 ^b	3/28	6.63 ^a	--	33.31 ^a	--	--
Pine Creek	3/25	88	32.7	30.8	16.0 ^b	3/25	6.68	4.94	40.44	23.47	172
Ree's Flat	3/27	62	21.0	24.1	13.0	3/27	4.59	--	24.20	--	--
Shingle Mill	3/28	63	19.4	14.1	8.9 ^b	3/28	6.14	3.10	27.95	15.68	178
Thistle Flat	3/28	84	28.4	24.9	17.0						

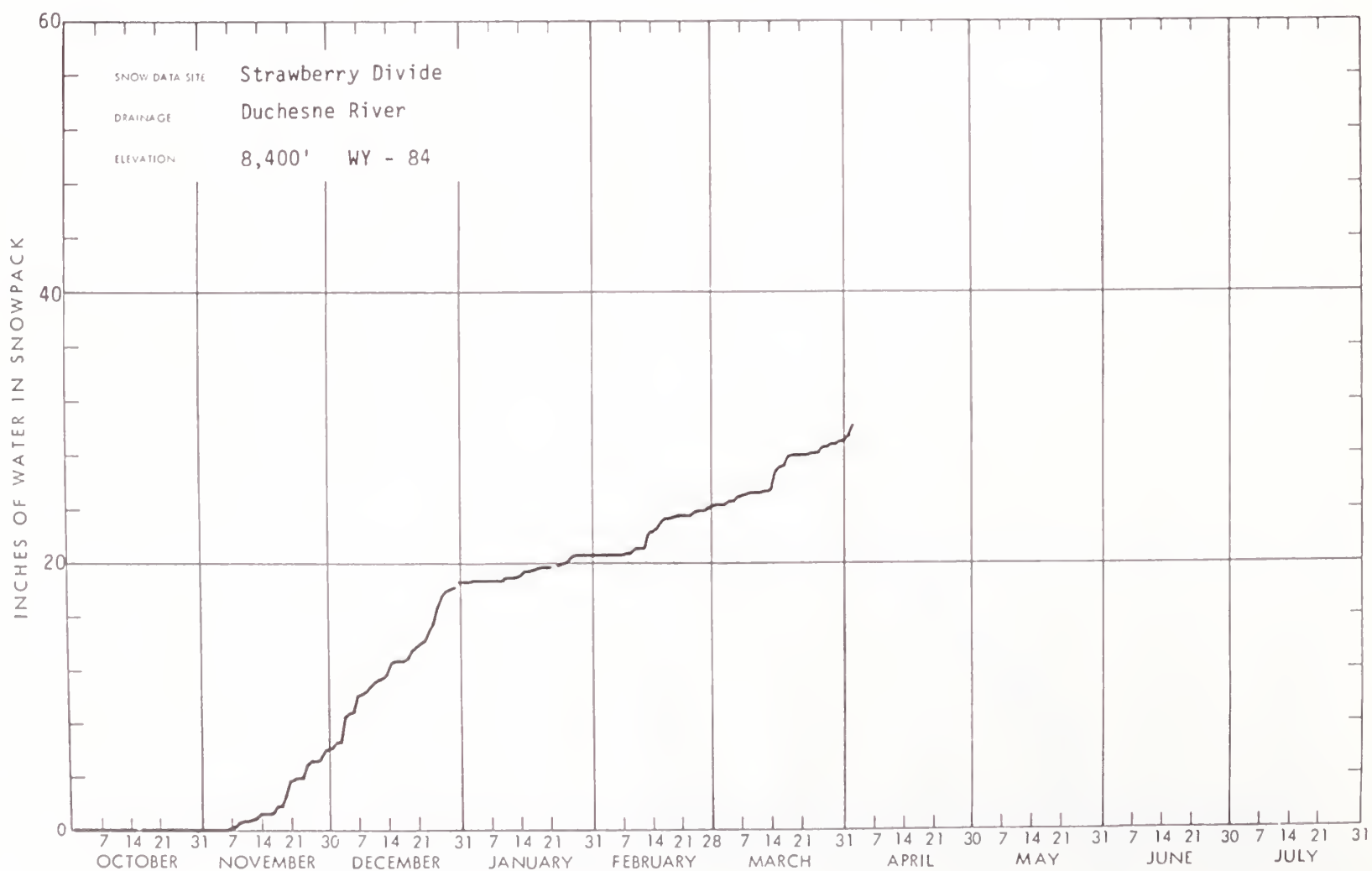
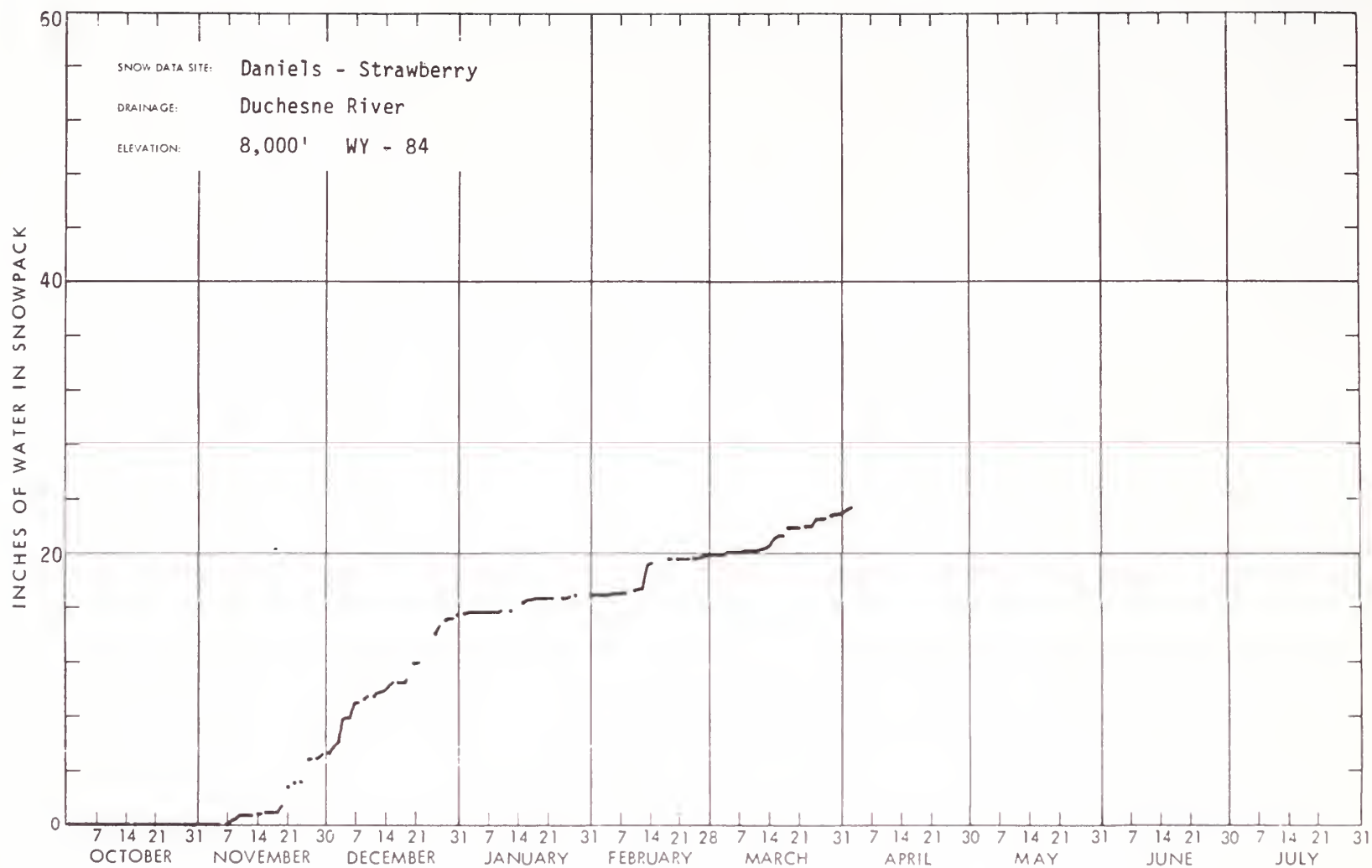
SNOW

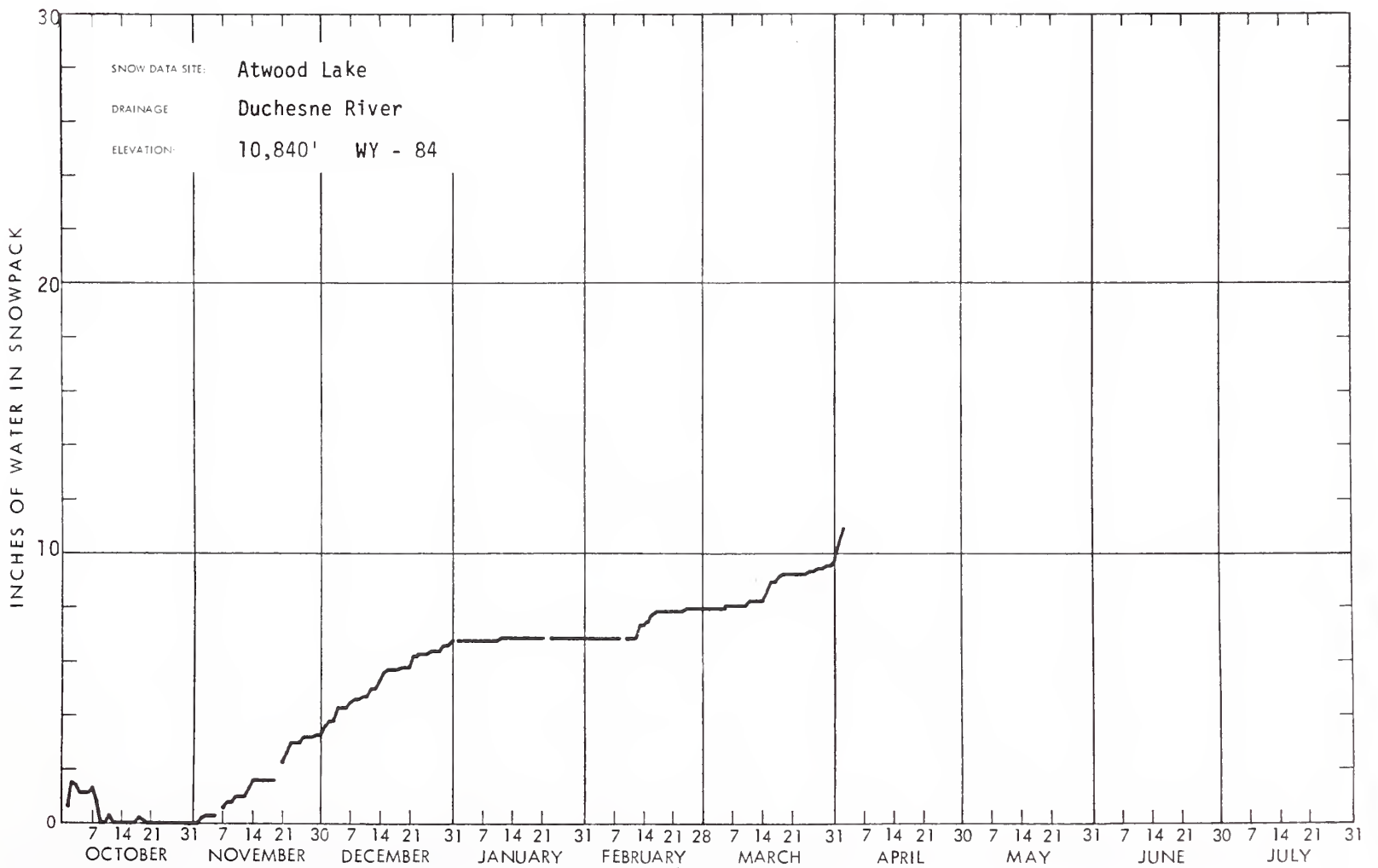
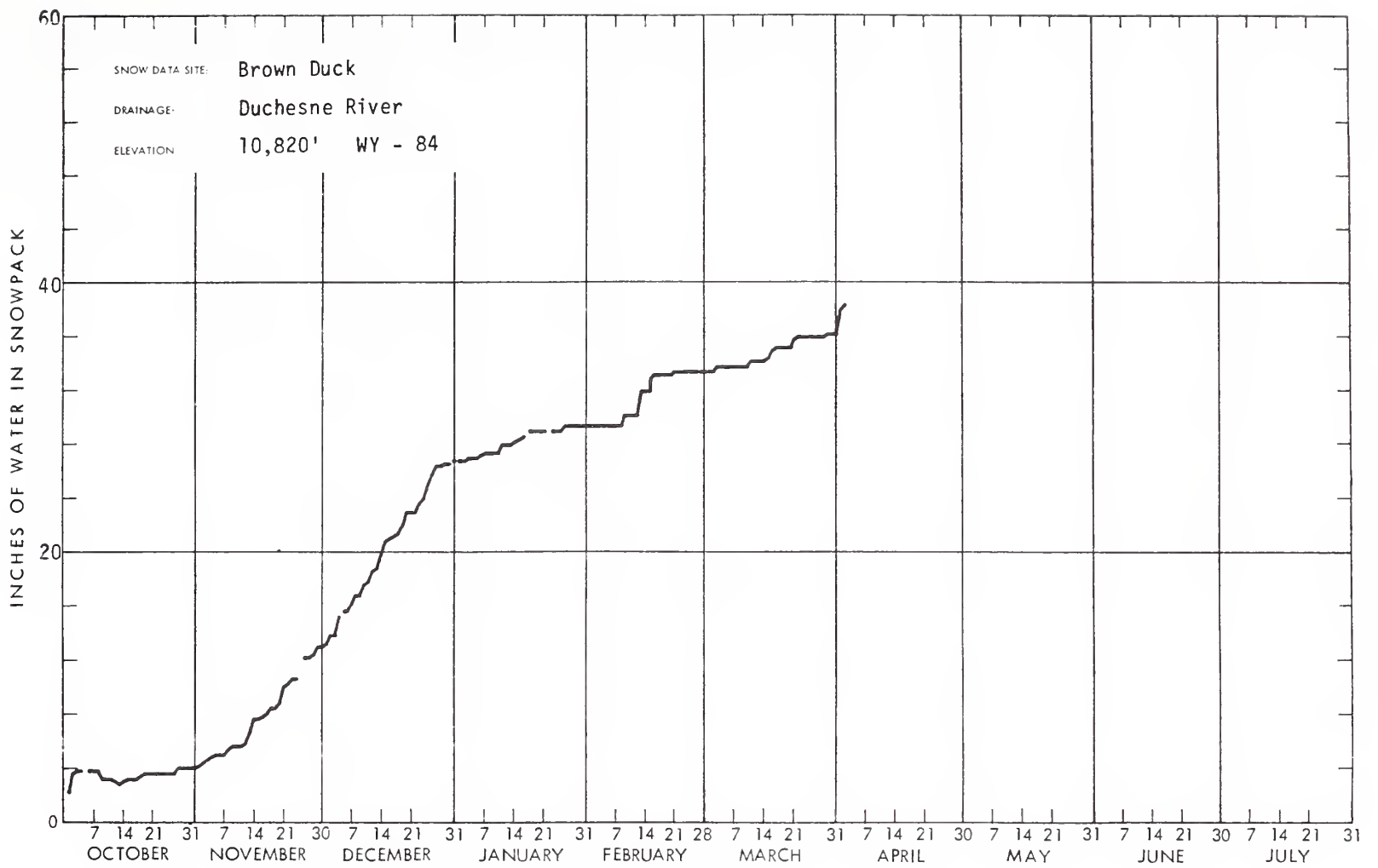
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
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				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
BEAVER RIVER											
Beaver Race Track	3/30	3	0.3	0.0	0.1 ^a						
Big Flat	3/25	73	27.1	31.2	18.3	3/25	2.78	3.00	23.80	15.53	153
Merchant's Valley (upper)	3/25	53	18.2	21.7	11.7 ^b	3/25	2.86	2.96 ^b	20.37	14.25	144
Otter Lake	3/25	55	19.3	25.6	14.2						
PAROWAN CREEK											
Birch Crossing	3/29	33	10.9	11.7	6.3 ^b						
Brian Head	3/25	62	22.1	34.3	21.6 ^b						
Tall Poles	3/29	56	18.3	27.7	15.3 ^b	3/29	3.30	3.02 ^b	18.50	14.89 ^b	124
Yankee Reservoir	3/25	39	13.1	17.9	10.0	3/25	2.05	2.73	14.40	12.13	118
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	3/25	0	0.0	1.6	2.8	3/25	0.34	2.16	11.59	14.49	79
Long Flat	3/25	9	2.5	18.3	6.8	3/25	0.86	2.40	7.18	11.63	61
COAL CREEK											
Cedar City Golf Course	3/29	0	0.0	0.0							
SUSC Ranch	3/29	15	3.8	24.0	8.2 ^b						
ESCALANTE RIVER											
Widtsoe-Escalante #3	3/25	32	8.7	21.5	11.8	3/25	1.41	2.40	13.22	12.07	109
VIRGIN RIVER											
Kolob-Crystal	3/25	45	12.9	44.9	25.1	3/25	1.06 ^a	--	21.32 ^a	--	--
Long Valley Junction	3/25	0	0.0	5.3	4.2						
Webster Flat	3/25	36	11.5	38.2	18.7	3/25	1.35	4.00	18.44	19.15	96
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading											

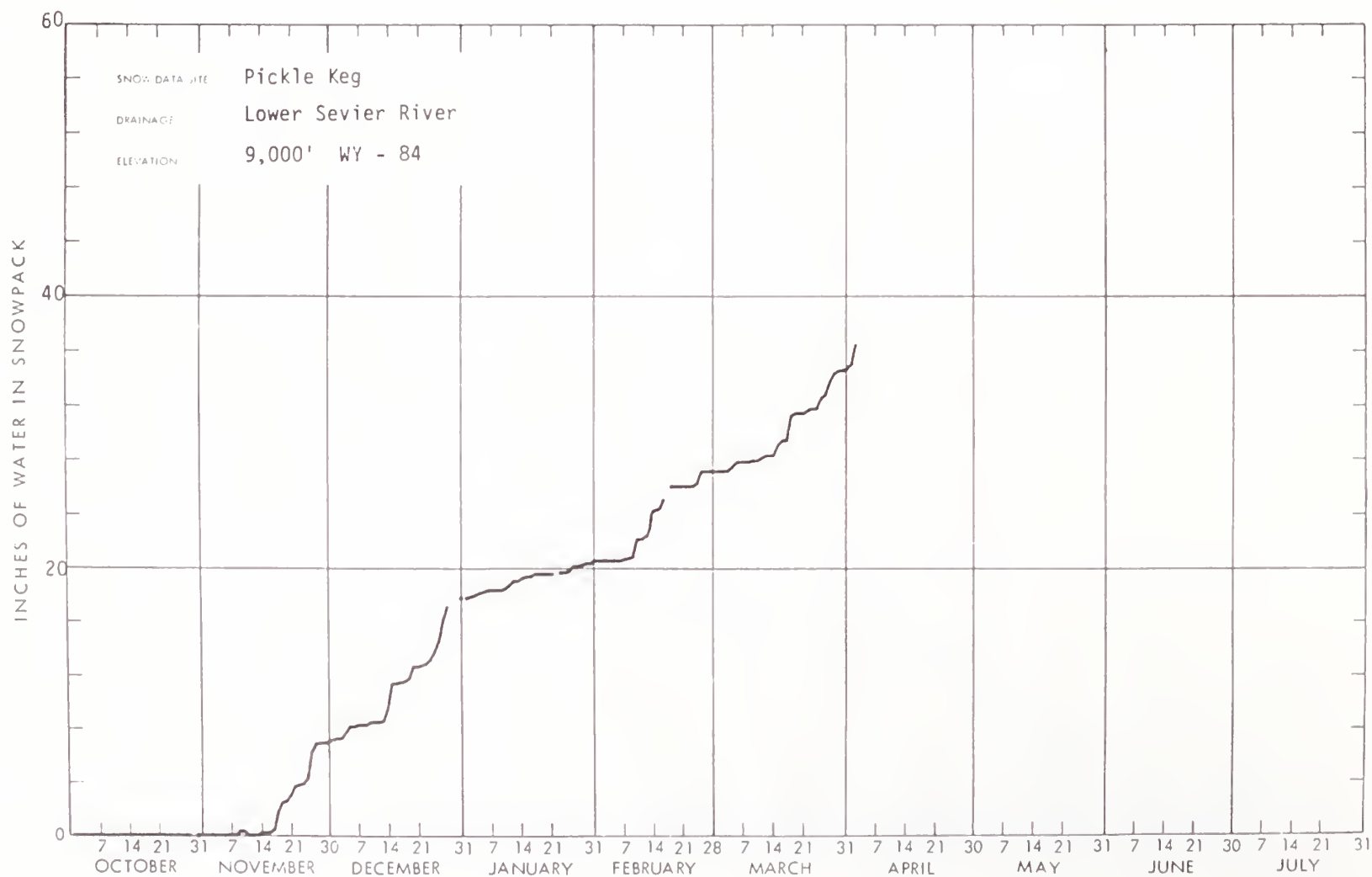
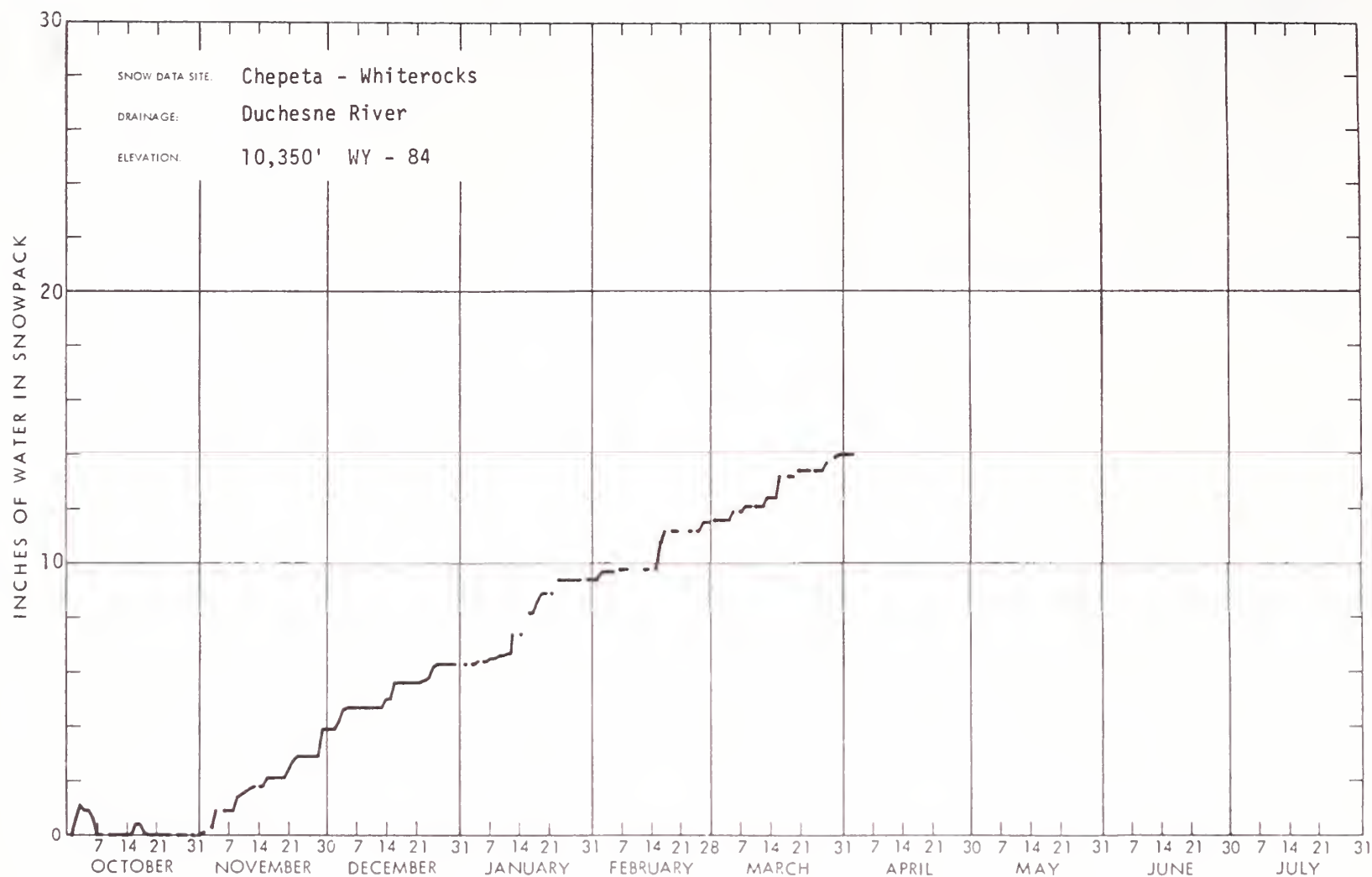


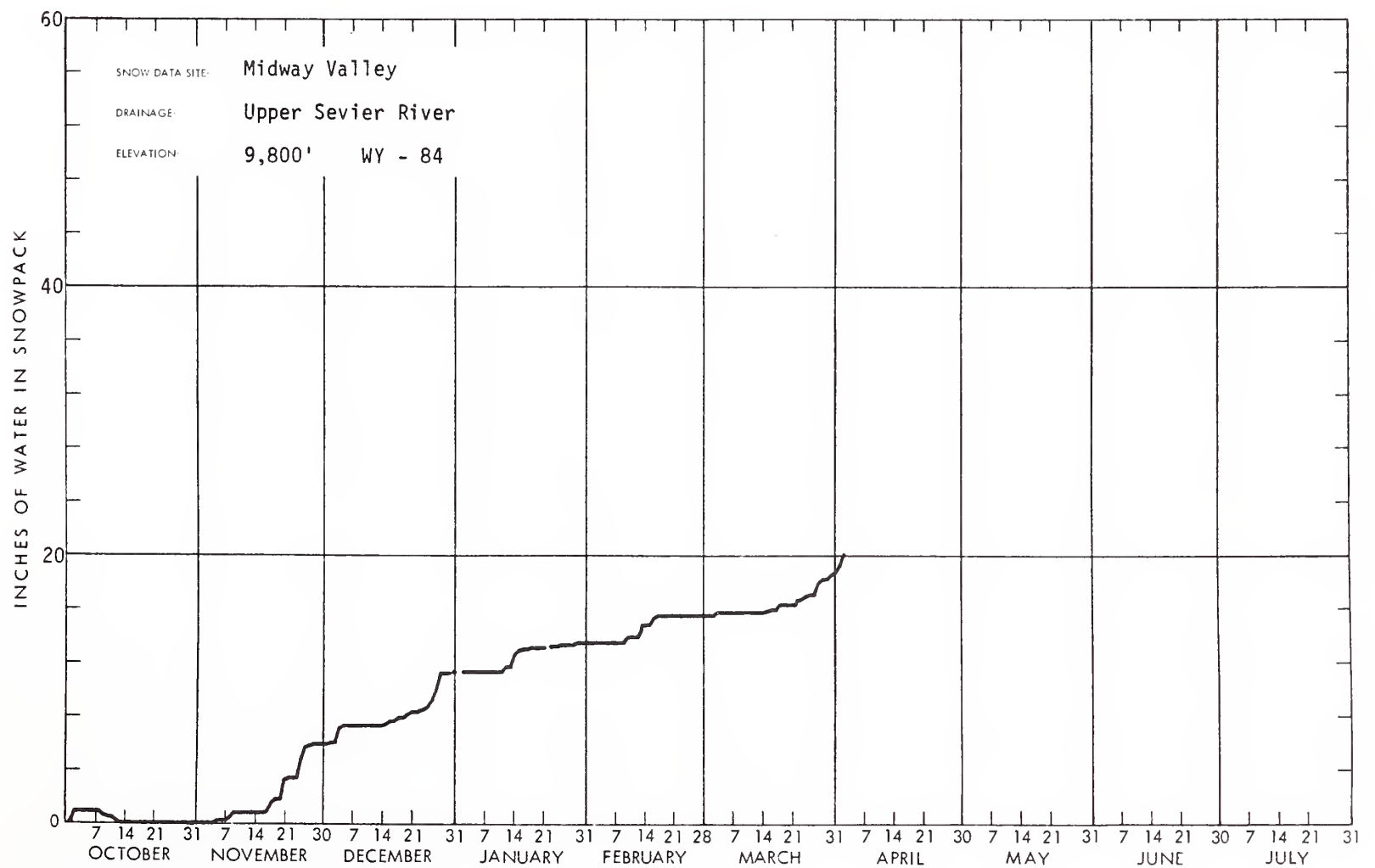
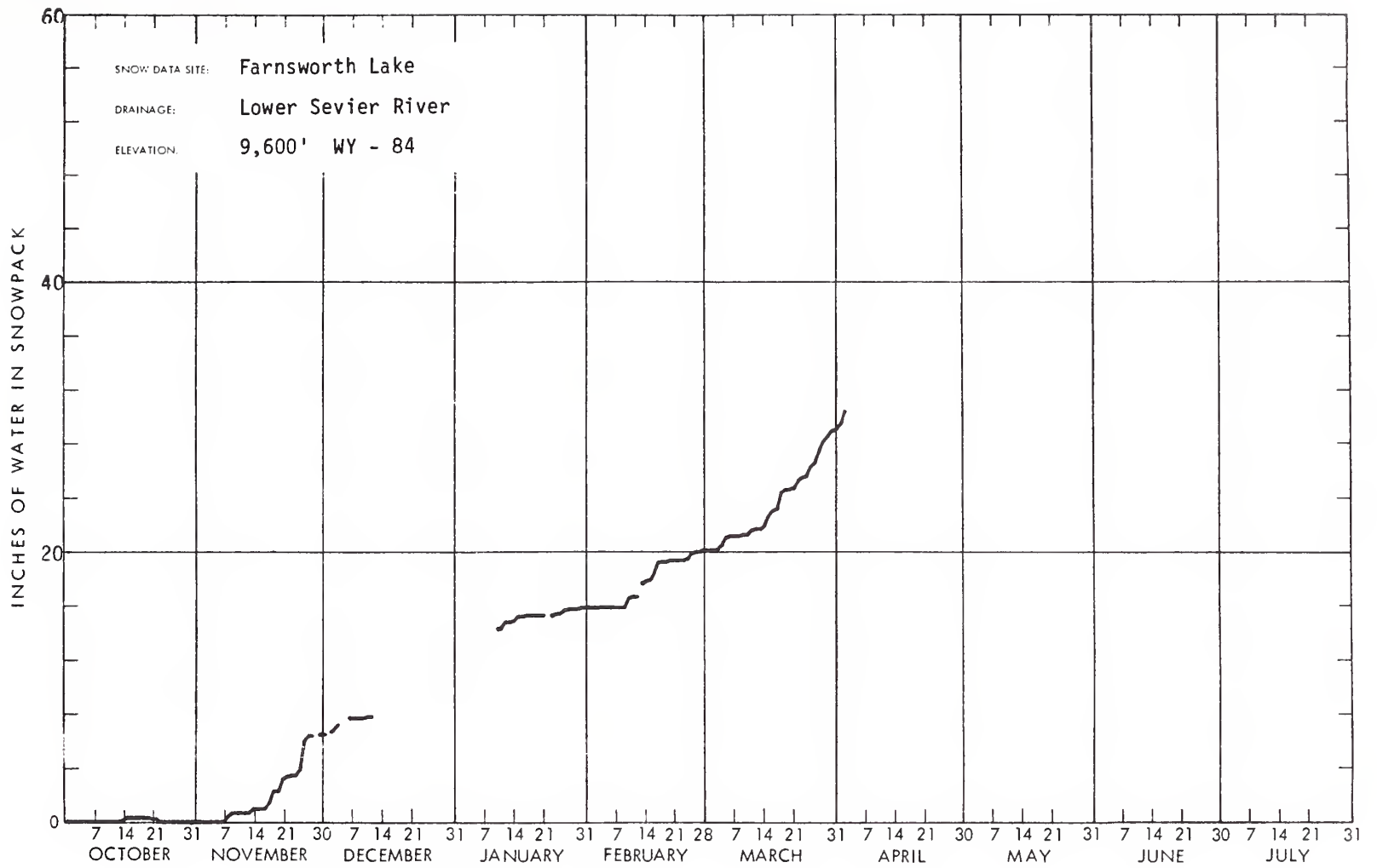




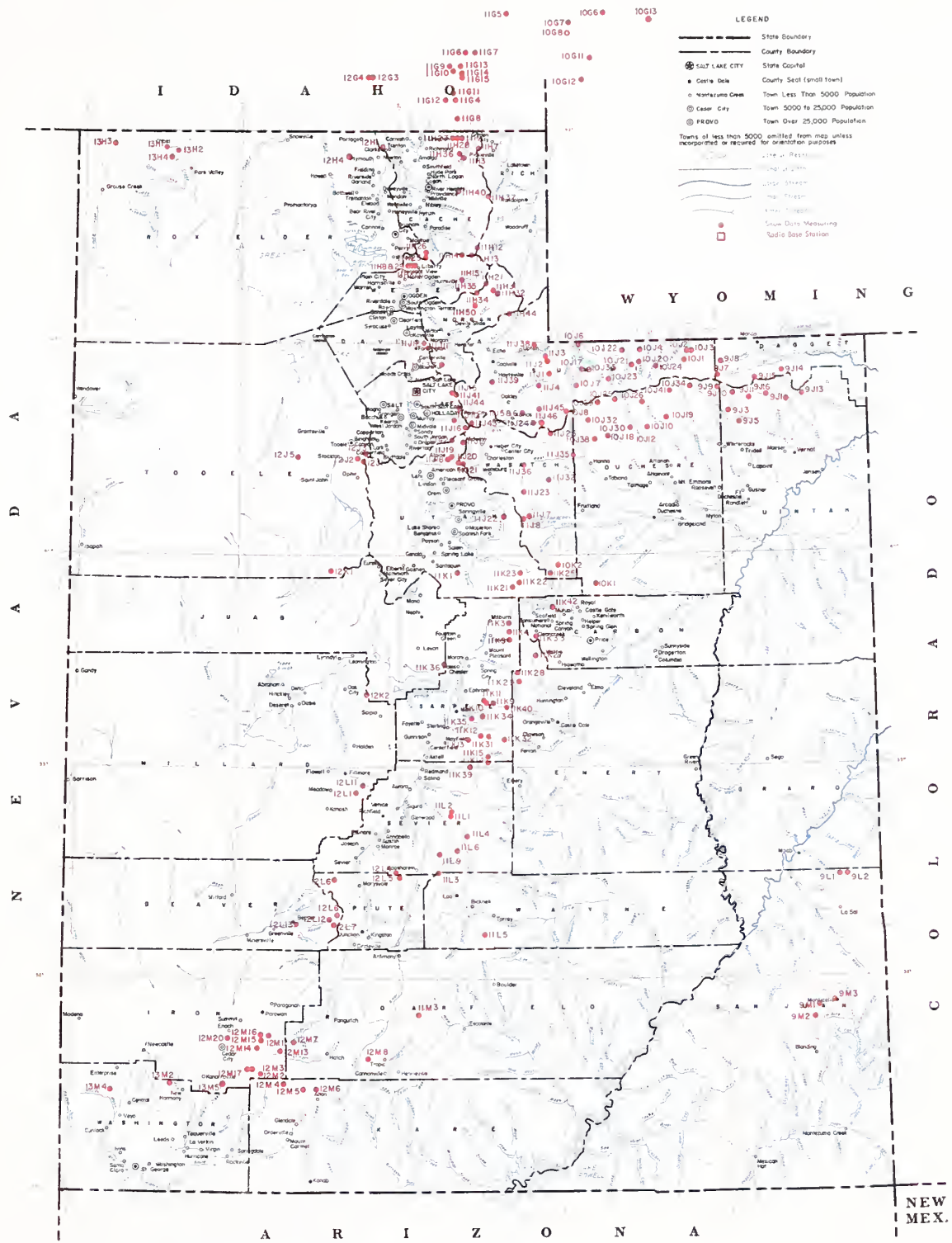








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SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1983



ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:1,000,000 4th
Edition (revision 1983) used as source
for base map and selected loc. data

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

LEGEND

Numbering System (see example)

1017	Snow Course Only
1017P	Snow Course and Precipitation Gauge
1017M	Snow Course and Soil Moisture Station
1017A	Snow Course and Aerial Marker
1017MA	Snow Course, Soil Moisture Station and Aerial Marker Only
1017MP	Snow Course, Soil Moisture Station and Precipitation Gauge Only
1017P	Snow Course, Precipitation Gauge, Snow
1017PS	Snow Course, Precipitation Gauge, Snow
1017PST	Snow Course, Precipitation Gauge, Snow

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
 - Soil Conservation Service
 - Forest Service
- U. S. Department of Commerce
 - NOAA, National Weather Service
- U. S. Department of Interior
 - Bureau of Reclamation
 - Geological Survey
 - National Park Service

STATE AGENCIES

- Utah State University
- Utah State Department of Natural Resources
 - Division of Wildlife Resources
 - Division of Water Resources
 - Division of Water Rights
 - Bear River Commissioner
 - Price River Commissioner
 - Provo River Commissioner
 - Sevier River Commissioners
 - Spanish Fork River Commissioner
 - Utah Lake and Jordan River Commissioner

MUNICIPALITIES

- Manti
- Salt Lake City

ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

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